Successful Farming

July 1952 · 25 cents

Harry C. Underwood farm
Cortland County
New York

Inside:

- Store hay for easy winter feeding
- Freezing ideas you'll like

TIME CHART FOR MARKET HOGS

128 DAYS 149 DAYS

Hogs WITH TERRAMYCIN in ration reached 220 lbs. in 128 days

TERRAMYCIN SAVED 21 FEEDING DAYS

Hogs with NO ANTIBIOTICS in ration required 149 days to reach the same weight

Terramycin can save producers two to three weeks in the time it takes to get hogs from weaning to market weight. As you see from the chart, test groups show a difference of 21 days with Terramycin in the ration—a big advantage in feeding efficiency and in hitting the earlier, higher markets. As you bring your hogs to full feed, make sure the concentrates you use contain Terramycin, best antibiotic for hogs.

Terramycin

...from the world's largest producer of antibiotics

Pfizer

Chas. Pfizer & Co., Inc., Brooklyn 6, New York

Headquarters for antibiotics and vitamins for animal health and nutrition

"GREATEST PULL ON EARTH"
No matter what claims are made for any tractor tire, this one fact stands out like a beacon light:
Year after year far more farmers prefer Goodyear's Super-Sure-Grip to any other make. There is no close second!
And the reason for this huge preference is that farmers find Goodyears give "the greatest pull on earth." It stands to reason that you, too, will be better off with Super-Sure-Grips—especially since they cost no more.
FIRST in Traction • FIRST in Long Wear
FIRST in Popularity
3 REASONS WHY GOODYEARS GIVE "THE GREATEST PULL ON EARTH"
STRAIGHT LUGS. Goodyear lugs are ruler-straight and come closer together at the shoulders—providing the time-proved, wedge-like bite that holds the soil in place and gives this tire more traction—gives your tractor more pulling power.
O-P-E-N C-E-N-T-E-R pioneered by Goodyear. Most widely imitated of all tractor tread designs because farm experience proves it the most efficient—when combined with straight lugs!
EVEN WEAR. Goodyear straight lugs work against the soil evenly, pull evenly, wear more evenly—to lengthen tire life and make your tire dollars go farther.
GOODYEAR
Super-Sure-Grip Tractor Tires
Super-Sure-Grip—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

This month

Photograph: Ozzie Sweet

The young man on the tractor in our cover picture owns one of the most attractive farms in the beautiful Cortland Valley. He has 425 acres of some of the best land in New York State. Harry C. Underwood, Jr., is a very successful farmer at the age of 26.

He started out like many young men—with his father, who paid him wages on the home farm and agreed to let him raise his own stock. By the summer of 1947 young Harry had 24 head of purebred Holsteins. That fall he sold them and entered nearby Cornell University to study agriculture. The following summer he had a chance to buy a 125-acre farm (near the top of the cover picture), so he decided to get it and begin farming.

Then, in the spring of 1950, another fortunate thing happened. John Currie, an elderly farmer across the road, sold him 300 acres, part of which you see in the fore part of the cover picture. Mr. Currie had farmed this land all his life. In fact, it had been in his family since 1894. Although he didn't feel that he could operate the farm alone at his age, he wanted to live there and in the home he built in 1934. This agreement was made with young Harry, who lives with his wife and 2½-year-old son in a home on the 125-acre place. The new owner says Mr. Currie, who is also in the cover picture, is "my adviser, and, instead of retiring, he works every bit as hard as I do or either of my hired men."

One of the ways this young farmer cuts costs and capital investment is to use farm equipment cooperatively with his father, whose 200-acre farm is about 4 miles away.

Right now Harry's farming operations revolve around cabbage, potatoes, corn, oats, and hay—with emphasis on the cash crops. In addition, he has 33 Holstein milkers and 34 young stock. Half of the dairy herd is purebred and half grade.

Successful
Farming
The Dairy Farmer

THE MAGAZINE OF FARM BUSINESS AND FARM HOMES

July, 1952 Vol. 50, No. 7

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THE MORE VALUABLE YOUR FARM BECOMES the deeper estate taxes will dig into it!

A GOOD MANY FARMERS who built up their farms back in the days when land prices were so much lower may not realize how much their acreage is actually worth today.

Nor do these farm owners realize that the more their farms increase in *value*, the higher the cost of settling their estates becomes. It's something like income tax. The higher the bracket, the greater the *percentage* the tax collector gets.

It's not at all unusual for estate taxes, inheritance taxes and administration costs to eat up as much as twenty or thirty per cent of the estate. And these costs must be paid *in cash*, often within a short time after the owner's death.

That's why, if you hope to leave your farm to your family intact, at least three things should be determined right away:

1. What your farm is worth at *today's* high prices.
2. How much cash would be needed for taxes and administration expenses to settle your estate.
3. Whether or not your heirs would have enough cash on hand to meet those costs.

Unless your heirs have enough money readily available, it might be necessary for them to sell part of the farm in order to raise it. And when property has to be disposed of quickly, it is usually at a sacrifice.

The ideal way to make sure your wife and family will never be faced with these problems is to own enough life insurance to meet taxes and other cash demands necessary in the settlement of your estate.

Then they will be sure of having the money when it is needed the most. They'll be able to settle the estate more quickly and will be saved much trouble and worry. And there will be less question about their receiving *all* of the property intended for them.

The New York Life agent serving your county will be glad to show you, without obligation, how life insurance can be used to protect your estate. Get in touch with him today. If you don't know his name, just write to the Home Office at the address below.

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IN YOUR COUNTY
IS A GOOD MAN TO KNOW

New York Life, a mutual company, pays dividends to policyholders only. It is one of the strongest legal reserve companies in the world.

Farm Outlook

Latest information on conditions, production, markets, and income prospects

Waiting period

The nation's economy seems to be in a period of "wait and see." Defense production is increasing, but slowly; civilian production is restrained by cautious consumer spending. Easier consumer credit may loosen the purse strings.

Manufacturers and distributors complain of "price-cost" squeeze and reduced profits; but you are hit hardest. Prices you pay are higher this summer than last; prices you receive are lower. Government economists think this gap will widen.

Feed grains

This year's corn crop will have to exceed 3.2 billion bushels (last year's was 2.9) if any is to be added to next year's carryover. Current supply is about 300 million less than at this time last year. Oats crop must top last year's 1.3 billion bushels, barley 255 million, sorghum grains 159 million.

July 10 government crop report will have more than usual significance this year in working out your program for production of meat, milk, and eggs in 1953. Study it carefully, particularly the feed-grain estimates of probable supply for your own area.

Beef cattle

Prices in recent months were $2 to $3 lower than for a year earlier. Main reason for the lower prices was that hides and other by-products were much cheaper.

Retail prices for beef kept close to ceiling levels, and retailers saw no point in trying to stimulate demand. Most of the space in advertisements and in display counters was given to pork and poultry.

Spring reports showed only 3 or 4 percent more cattle on feed than last year. Most of the increase was to be marketed after July 1. Marketings of grass cattle seem likely to be moderately larger this fall than in 1951. This may bring some decline in prices of the lower grades. O.P.S. or not, the short 1951 corn crop favors a good seasonal rise in prices of top-grade cattle this summer or fall.

Total marketings so far this year have been no larger than in 1951 when farmers and ranchers added some 6 million head of cattle and calves to their herds. Thus the build-up in cattle numbers seems to be continuing for the fourth straight year.

Carryovers down

A new marketing season opens with carryover stocks of several commodities (feed grains, wheat, rice, dry beans, dairy products, cotton) the smallest in several years. Larger carryovers include food fats, canned fruits and vegetables, wool, and tobacco.

Adding this year's production, total supplies won't be excessive in relation to requirements. Excepting wheat, there won't be much—if any—addition to reserves.

Two-part demand

Government economists forecast a high level of demand here at home for your farm products this year; but they think exports will be smaller than last year's big shipments.

Big home demand is based on an expected rise in consumer income after taxes, and on population growth which is adding another 3 million new consumers this year.

Last year we exported 4.0 billion dollars' worth of agricultural products (principally grain and cotton), compared with 2.9 in 1950, and 3.6 in 1949.

This year, the total is expected to be about 3.6 billion, with most of the drop in the second half of the year. Cotton is only commodity expected to show increase above last year. Exports of wheat, tobacco, soybeans, lard will be down.

Hogs

Don't sell your spring pigs too light. Many farmers overestimate the weights of their hogs in July and August. This leads them to sell too early and to take an unnecessary price discount.

Cheap lard may make it unprofitable to put much corn into sows headed for market. There is much guessing about how high prices of hogs will go this summer. Most hog producers should be more concerned about the general strength of the market this fall and early winter.

As compared with last year, the fall market seems likely to be strengthened by 6 to 8 percent more consumer buying power and 8 to 12 percent less pork. Rather heavy marketings of grass cattle may offset some of the reduction in marketings of hogs. The big runs of hogs from the northern and western parts of the Cornbelt probably will be delayed until after new corn is available for finishing.

Lambs and wool

Market receipts of sheep and lambs during the first part of this year were greater than in the like time of 1951. This indicates there is as yet no big build-up in sheep numbers. Prices for wool are being supported by a government loan program. The loan rates are calculated to be equal to a national average price of 54 cents a pound to producers.

Milk estimates off

B.A.E. now reveals that for years it has been overestimating the production of milk. Output last year was only 115.6 billion pounds instead of the 122.3 billion previously reported. The revisions go back 10 years; they add up to more than 50 billion pounds for this period—almost as much as the quantity consumed as fluid milk and cream by the entire population in one year.

Milk production now is about the same as it was a decade ago, while the human population has increased by more than 20 million persons. Any increase in production this year must come from increased production per cow.

Seasonal rise in milk and butterfat prices should be reflected in milk checks from now on through the fall months. Look for a price rise of 75-80 cents per hundredweight by November, which approximates the average rise of a year ago. Dairymen still are in a strong price position. END

It's Christmas in July!

when you Shop Early and SAVE on . . .

Standard's famous Farm Deal!

Get a load of savings

Place your advance order for Standard Motor Oils now and you'll get a load of savings on the supplies you'll be using all next year. You pay nothing down . . . only when you take delivery. The more you order, the more you save.

It's like finding money under the tree . . . You get discounts which apply to your entire order for motor oils, greases, sprays, insecticides, household waxes and other needs for farm and home.

It's like Christmas in July when you shop early and save on this big 20th Anniversary Farm Deal. Put Standard's famous motor oils at the top of *your* list. Choose from three farm-tested brands: PERMALUBE, ISO-VIS and POLARINE. You get price protection, substantial discounts, quality products, dependable delivery, friendly service, all from one man—your Standard Oil Man.

STANDARD

Call your Standard Oil Man!

National Farm Safety Week—July 20th-26th—Be Careful—The Life You Save May Be Your Own!

they're Westclox

...for work, for play, for dress
—and they're priced
from $2.80 to $11.95

WRIST BEN. Handsome...and built for rugged use. Chrome finish case; stainless steel back, curved to fit wrist. Non-breakable crystal, $5.95. With luminous dial $6.95.

LANCE. Westclox finest! Smart, small, compact. 10-kt. rolled gold plate front case; stainless steel back, curved to fit wrist. Non-breakable crystal. Plain dial, $11.95.

RAJAH. Smart for dress; sturdy for work or play. Chrome finish case; stainless steel back, curved to fit wrist. Non-breakable crystal. Plain dial, $9.95.

POCKET BEN. Champion of pocket watches. Thin and good-looking, this watch "can take it." Non-breakable crystal. $3.35. A dollar more for luminous dial.

SCOTTY. Thin and smartly-designed, with typical Westclox sturdiness. Plain, easy-to-read numerals and attractive hands. Non-breakable crystal. Plain dial. Only $2.80.

Prices do not include tax and are subject to change.

WESTCLOX
Watches

Made by the makers of Big Ben

PRODUCTS OF GT GENERAL TIME CORPORATION

Friend to Friend

Conservation capital

Would you move more rapidly toward a complete soil conservation program on your farm if you had the necessary capital? Do you believe that the spending of such money would make you more money provided you could float a loan? I would be very much interested in the answers to these questions. Very shortly, soil conservation district supervisors are going to be interviewing many agencies which loan money to farmers, to find out what they think.

A typical questionnaire asks bankers how much they require in conservation practices from farmers who ask for credit. They are also asked if they would be more liberal with credit if they knew the loan must be applied to soil conservation practices. It might be a good idea to talk this over with your own banker. Even though you may not need financial help yourself, a lot of your neighbors may not be so situated.

Grassland Congress

The rising interest in grassland farming, evident for the past five years, will be stimulated by the Sixth International Grassland Congress to be held at Pennsylvania State College, August 17 to 23. The far-reaching consequences of such a congress are beyond estimation. The possibilities and blessings of this type of farming have never been so fully explored. Those who have brought this great event together deserve the highest appreciation for their efforts.

Already many of the nation's leading business associations have given freely of their time and money to the congress. Many tours throughout the country will be organized where the fullest local cooperation will be essential. Your interest in the development of the Grassland Congress and its results will be amply repaid.

Must livestock mean mud?

The mud of last spring revealed a sharp difference between eastern and western Cornbelt methods of keeping livestock. Throughout Nebraska, Iowa, and Illinois, farmsteads were seas of mud so deep one could not be sure whether cattle in the yards were standing up or lying down. In Indiana, Ohio, and Pennsylvania, farmsteads were extremely neat and grassy. Few cattle were to be seen, and yet the barns were full of good animals.

Is there more of a difference in the soil than in the management? Is the eastern system of providing little or no barnyard costly in labor? Surely, animals up to their knees in the mud aren't making top gains. And the job of hauling feed with a tractor equipped with chains is not a pleasant business.

Right now the whole job of mechanizing livestock production is in the spotlight. Choretime must be cut down and the work made lighter. Why not exchange some topflight college experts and livestock men between East and West for a season? The eastern method looks a lot more pleasant. If it's as efficient, it should be copied.

Grass silage

After watching this method of storing forage for 15 years, farmers and colleges have suddenly become excited about its possibilities. Strange how long good ideas get kicked around before they catch the public eye. A rainy summer in 1951 and plenty of equipment to handle green forage account for much of the interest. Already there is a large amount of practical and scientific information available to the beginner.

Storage ranges in type from the upright, circular silo through stacks to trenches or half trenches called "clamps" by the British farmers. No preservatives are needed unless a high percentage of legumes is present. And then a large number of farmers question their use. The old corn-and-cob-meal or molasses addition is thought a sound insurance method. The latest plan of injecting sulfur dioxide has won converts because it reduces heat and odors. Heat, common in the curing process, is supposed to represent a loss, especially of protein.

Many stacks of long, unchopped silage will be tested. Already this year I have seen winter oats successfully stored in this way. It's important to consider your feeding methods before trying any of the new ways. Simple feed racks can cut out all handwork if they are used right.

Kirk Fox

"My dad and I really put a truck through its paces," says Sam Harrod. "We recently bought two new Dodge *'Job-Rated'* trucks and like them so well we plan to trade off our other units and 'go Dodge' exclusively!"

"Dodge trucks sure stand up!" says Kentucky farmer

"We run 'em hard on all kinds of roads and in all kinds of weather," says farmer Sam Harrod of Frankfort, Ky., "and our Dodge *'Job-Rated'* trucks sure stand up under it!

"We haul a little bit of everything—and haul it everywhere in a hurry. We use our trucks constantly on our six farms, where we raise cattle, hogs, sheep, and tobacco. Also, we haul heavy loads of corn and hay and sell it to other farmers around here. And each summer we make long trips to Florida and Georgia to bring back cantaloupes and watermelons. Our Dodge trucks show up well on all these jobs!"

Sam Harrod, like thousands of other owners, knows from experience what Dodge *"Job-Rated"* trucks can do. Your friendly Dodge dealer will welcome the chance to show you how a Dodge *"Job-Rated"* truck can help you!

"They're the most economical trucks we've found. Our Dodges cut expenses on gas and oil and they cut your repair bills, too! Saving money is important when you're on the go as much as we are. We don't like costly 'down-time' either—one more reason why it's Dodge trucks for us!"

"We take big hills in high gear when we rush big loads of stock or produce to market with our Dodge *'Job-Rated'* trucks. In a Dodge truck we get the right engine and other units to *move* our loads. And we get the right units to *carry* our loads. Our Dodge trucks sure fit the job!"

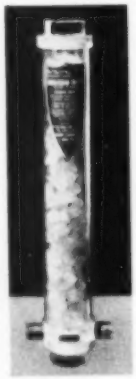
DODGE "Job-Rated" TRUCKS

What's new *in homemaking*

An electric fan can provide cool comfort and also act as a useful little table to serve summer refreshments! This "Debonaire" model moves the air evenly in all directions, circulating 2,700 cubic feet of air a minute without draft. The fan is 22 inches in diameter and 20 inches in height. A sturdy, attractive serving tray

is available as an "extra" with the fan. It is made to fit in a compartment just beneath the removable table top of the fan and can be stored there when it is not being used. Approximate price of the fan is $84.95. The tray is $9.95 extra. Available at Westinghouse dealers everywhere.—*Westinghouse Electric Corporation, Mansfield, Ohio.*

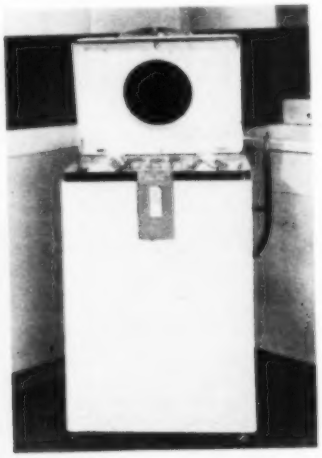
Aqua-Clear crystals and feeder stop rust in the household water system. Water is passed over crystals, slowly dissolving them to form a pure, transparent, protective film on the inner surfaces of tanks and pipes. Film prevents water from ever coming in contact with the metal, checks rust formation, and stops present rust from discoloring water. Installation is simple—feeder is usually put in intake to hot-water tank. Only operating cost is an occasional replacement of the crystals. Equipment complete costs $37.45. Order it directly from the *Sudbury Laboratory, Dutton Road, South Sudbury, Massachusetts.*



Automatic defroster turns refrigerator off for a short time each night, keeps frost off. Your refrigerator works better, you work less—just wipe away small amount of drip in tray every two or three days.

No installation; plug defroster into wall outlet, then plug refrigerator into defroster. Price: $8 to $10 at department and appliance stores. "De-Frost Automatic" (on left)—*Automatic Controls Corporation, Ann Arbor, Michigan;* "De-frost-it" (on right), *Paragon Electric Company, 1000 Twelfth St., Two Rivers, Wisconsin.*

A dishwasher requiring no special plumbing, this portable uses inlet and drain hoses to the sink, rolls away when not in use. Water, at a sanitizing 190 degrees, is sprayed on the dishes from its



own built-in heater tank. (Each load takes 4 gallons.) Dishwasher is 24x19, 36 inches high. Uses 110-volt, 60-cycle current. About $230, at appliance and furniture stores.—*Apex Electrical Manufacturing Company, 1070 E. 152nd St., Cleveland 10, Ohio.*

Fresh eggs or dried eggs? In a cake like this? Fresh eggs, of course.* That's why Betty Crocker says, "You add the eggs to my cake mixes. You know the eggs are fresh."

Unlike most cake mixes, there are

NO DRIED EGG WHITES, NO DRIED EGG YOLKS, NO DRIED EGGS OF ANY KIND IN

Betty Crocker

CAKE MIXES

*HERE'S PROOF *that you should use Betty Crocker Cake Mixes to which you must add fresh eggs. Hundreds of homemakers in Philadelphia, Cincinnati and St. Paul recently compared three leading cake mix brands, including Betty Crocker Cake Mixes. Plain packages were used so the women did not know the brands they were comparing, and the research was conducted by an independent marketing research organization. On the average, the preferences for the cakes made from the Betty Crocker Cake Mixes, calling for fresh eggs, were more than two to one over the cakes made from the "dried egg" cake mixes tested.*

GENERAL MILLS

Keep this Ray-O-Vac 2 cell flashlight in your tractor tool box. Brilliant, wide-angle beam.

they stay fresh–

You can see and feel the difference. Just hold a Ray-O-Vac LEAK PROOF flashlight battery in your hand. See how sturdy it looks—how strong and substantial it is . . . because it's *sealed in steel*.

And this sealed-in-steel protection that only Ray-O-Vac provides means these batteries stay fresh for years. They're always ready for any emergency . . . on the farm or in town. So always get genuine Ray-O-Vac LEAK PROOF flashlight batteries that give you . . .

1. Steel top
2. Multi-ply insulation
3. Steel jacket
4. Steel bottom

Each Battery Carries This Guarantee:

"If your flashlight is damaged by corrosion, leakage or swelling of this battery, send it to us with the batteries and we will give you FREE a new, comparable flashlight with batteries."

Only genuine Ray-O-Vac LEAK PROOF flashlight batteries are *sealed in steel*!

Buy Spares – they stay fresh!

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This may help you SAVE

If you want to feel that you can give aid if someone urgently needs it, learn artificial respiration. If given immediately, it may save someone from drowning, electrocution, suffocation, or gas poisoning. It's good accident insurance.

Far more effective than the old method is the new back-pressure, arm-lift method now being used and taught by both the American Red Cross and the United States Army and Navy. It was

1 To start the cycle, the operator places his hands firmly on the victim's back so the thumbs just touch and the heels of the hands are just below an imaginary line extending between the victim's armpits

2 Then he rocks backward, slowly sliding his hands to the victim's arms just above the elbows. Continuing to rock backward, he raises arms until resistance and tension are felt at victim's shoulder

A LIFE

developed after intensive research, is easier to administer than the old method, and less tiring for the operator. Here's how to do it:

The victim is placed on his stomach, elbows bent, one hand upon the other. The cheek is placed on the hand, with the face turned slightly to one side. The operator then kneels on one knee at the head of the victim. Now follow the steps numbered below.

2 The operator then rocks forward slowly, keeping his elbows as straight as possible, until his arms are approximately in a vertical position. This causes a steady pressure to be exerted on victim's chest

4 He drops the arms and thus completes full cycle. Cycles are repeated 12 times per minute. Push-pull phases are of equal length, and release periods of short duration. (See page 24 for water-safety tips.)

"I'm saving up to 30% on food with my new COOLERATOR freezer"

Model FA-140—14 cubic feet—ideal for average-size family!

Take your annual fresh foods bill—cut off 30%. Sound good? You can do it with a Coolerator freezer. It brings you a whole new plan of buying . . . with quantity savings . . . when prices are lowest. Yes, you can buy low and live high with Coolerator . . . eat strawberries in December . . . skip many trips to the market. And convenience is built right in—with removable baskets, a handy carrying-tray, sectional dividers and separate fast freeze compartment, counter-balanced no-drop lid for finger-tip lifting.

What's more, the Coolerator is *quality construction* through and through—with its jet-packed Cell-U-Fiber insulation, built-in safety lock, positive temperature control, molded rubber gasket and collar to keep cold in, leveling gliders for easy installation even on irregular floors. Stop in at your Coolerator dealer, compare Coolerator—feature for feature—18 ways—with any other freezer!

Guaranteed by Good Housekeeping

Because your home deserves the finest —choose

Coolerator

AN E.C.F. ASSOCIATE

COOLERATOR ELECTRIC REFRIGERATORS • RANGES • FREEZERS

"How to be a Part-Time Housewife."

Send for free booklet with dozens of ideas to save you time, work and money—pictures and facts about the exciting new Coolerator appliances. It's a gold mine of suggestions for taking work out of housework.

The Coolerator Company SF-72
Duluth 1, Minnesota

Please send me "How to be a Part-Time Housewife"

Name _____

Address _____

City _____ *Zone* ____ *State* _____

Look-alikes?

...yes, but one directs guns, the other directs telephone calls!

Each of these units of electronic equipment is important to national defense in its own way. Together they symbolize the double-barrelled defense job being done by Western Electric — the manufacturing unit of the Bell Telephone System for the past seventy years.

With the help of thousands of sub-contractors, large and small — located in all parts of the country — we're turning out special military communications and electronic equipment for the Armed Forces. For example: a radar fire control system for anti-aircraft guns, a part of which is seen in the left-hand picture.

Naturally, we're also busy on our regular job of making telephone equipment — such as the dial switching unit at the right — to help keep the Bell telephone network going and growing in the nation's service.

Western Electric

MANUFACTURING AND SUPPLY UNIT OF THE BELL SYSTEM

Ladino—*let's not give it up*

Bloat has taken some of the steam out of Ladino. But, there are tricks to using it. Here's how to avoid trouble

Many farmers are getting their fingers burned using Ladino clover in their beef and dairy pastures—so many, in fact, that Ladino is getting a black eye. Word spreads fast when a neighbor loses a cow from bloat on Ladino pasture.

This situation is serious, not so much because of the bloat problem, but because we are in danger of losing this valuable legume through fear. Before we write it off as too dangerous to use for pasture, we need to learn how to handle Ladino. Hundreds of farmers have been successfully using Ladino for years and are not afraid of it.

Earl Johnson, manager of Clanyard Farms, Huntley, Illinois, says: "I'm sold on Ladino and intend to keep growing it in our pasture mixtures. The secret as far as we are concerned is to be sure there is a high proportion of bromegrass and alfalfa along with the Ladino.

"I have noticed that as our seeding gets older the Ladino-brome tends to take over and alfalfa decreases. Right now we are pasturing a field which is predominantly Ladino. We are giving the cows a feeding of corn silage morning and night and haven't had any trouble."

Burton Drury, Albany, Illinois, has both rotation and renovated pastures with a high proportion of Ladino. "So far I have had no trouble," says Drury. "I think it is important to have a mixture of bromegrass and I try to keep the cows full—not let them get hungry."

Getting and keeping the right grass-Ladino balance (about 50-50) is one of the best ways to hold down bloat on Ladino, according to G. T. Woods, extension veterinarian, University of Illinois. Ladino has a tendency to take over the grass. Overgrazing is one of the biggest causes. When this happens, the stand of grass is reduced, leaving the Ladino to dominate the pasture.

"Most farmers are scared to death of Ladino," says Elmer Zimmerman, Jefferson County, Wisconsin, "and that's one of the biggest causes of bloat trouble on Ladino. They think they can control it by putting the cattle on Ladino pasture for only a few hours each day. Actually, this is just the thing they shouldn't do." Once Zimmerman puts the cows on Ladino he leaves them there, both day and night.

Another practice which Zimmerman feels is contributing greatly to his success with Ladino is barn-feeding his cattle both night and morning. Grass or corn silage is fed in the barn. A grain mixture, fairly high in corn, is also fed. Zimmerman has been pasturing Ladino for 9 or 10 years and he has never lost a cow from bloat due to Ladino.

So let's not write off Ladino as a pasture crop for cattle and sheep. Good pasture mixtures, with at least 50 percent grass, and proper feeding and management practices will take most of the bloat danger out of pasturing Ladino.

Beef build-up may mean

Lower prices for grass-fed cattle

"The real premium's being paid for grass-fed cattle." Last year, that statement was as common as a bee in a clover field. But what about this fall? What market should you aim for and how should you feed to reach it?

In planning this year's program, remember there has been an increase of 12 million head of cattle in the last four years. Half of this increase took place last year as a result of holding back young stock and breeding animals.

This increase, resulting from withholding cattle, has given the market additional strength *beyond the present period of high prices* due to the world economic situation.

Cattle numbers will be higher yet this fall. Besides the continuing build-up here at home, the embargo on Mexican cattle—resulting from hoof-and-mouth disease—will be lifted September 1 according to present plans. However, Mexican cattle imports will be somewhat balanced out by the restrictions on Canadian beef animals after the recent outbreak of hoof-and-mouth disease there.

Most livestock forecasters say that 10 percent more beef will go to market this year than last—most of it this fall. Little increase in consumer demand is looked for.

So, with increased marketings we can probably expect lower prices. And the customary drop in grass-fed-cattle prices this fall looks almost certain. *We didn't have this drop last year.* If you've got the feed, you might be wise to grain-feed on grass this summer.

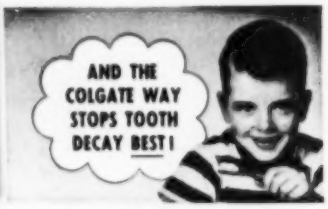
If the corn crop is good this year, and you have cattle on grass, you'll have a good opportunity of selling heavy grass-fed cattle to a short-term feeder along about September. Or, if you don't do this, and your own corn crop is good, you can short-feed the cattle yourself and plan to market not later than early October.

Most economists think that if we don't get a sharp break in price by September, you'll be wise to move cattle then. If the market does break sharply, put some pounds on your cattle and aim for a livelier market later.

Brushing Teeth Right After Eating with
COLGATE DENTAL CREAM
STOPS BAD BREATH AND STOPS DECAY BEST!

Colgate's Instantly Stops Bad Breath In 7 Out of 10 Cases That Originate in the Mouth!

It cleans your breath while it cleans your teeth! Brushing teeth right after eating with Colgate Dental Cream gives you a *clean, fresh* mouth *all day long!* Scientific tests *prove* in 7 out of 10 cases, Colgate's *instantly* stops bad breath that originates in the mouth. No other toothpaste has proved so completely it stops bad breath. No other cleans teeth more effectively, yet so safely!



Yes, the best way is the Colgate way! In fact, brushing teeth with Colgate Dental Cream right after eating is the most thoroughly proved and accepted home method of oral hygiene known today. The Colgate way stopped *more* decay for *more* people than ever before reported in dentifrice history! Yes, to help stop bad breath and tooth decay at the same time, the *best* way is the *Colgate* way!

PURE, WHITE, SAFE COLGATE'S WILL NOT STAIN OR DISCOLOR!

The farmer's Washington

By Richard Wilson

- **Parties draw battle lines over farm program**
- **Your costs are up 5 percent, says U.S.D.A.**
- **R.E.A. is shifting to telephone-line building**

Politics. The scramble in Washington to create a strong political position for both parties in the fall elections is something to watch.

It didn't make much difference to the contestants who was nominated for president by either party. They were thinking more of the congressional elections. They were assuming, in general, that the lines of battle would be about the same, whoever ran for president. The fight ran something like this:

Republicans: They claimed favoritism and corruption had been amply shown to have smeared a farm program supposed to be conducted in the national interest, benefiting both political parties.

They claimed the government's price policies, meshed in with the labor and financial policies, hamper the farmer rather than help him, and that he will be better off the freer his market is.

Democrats: They claimed irregularities in the farm program involved only a small fraction of a percentage point of both the money handled and the government personnel involved.

They charge the Farm Bureau Federation in alliance with the National Association of Manufacturers and other business groups are trying to destroy the farm programs.

The issues: Two specific issues were involved. The first was the question of farm parity. The Farm Bureau Federation took the view that parity is only insurance against disastrous prices. The Farmers' Union took the view that a guaranty of 100 percent of parity is essential. Secretary of Agriculture Brannan took a position midway between. He asked for mandatory price supports at 90 percent of parity, and elimination of a sliding scale of supports.

The other issue was over funds to be voted for the agricultural conservation program. The Farm Bureau wanted the agricultural conservation payment fund cut to $100 million. The Farmers' Union wanted to boost it from the $250 million recommended in the budget to $400 million. The House of Representatives decided to stick to $250 million.

The record thus made before congressional committees on the parity issue and in the House on the conservation payments issue is the basis of the contest between the Republicans and Democrats.

One event may be used extensively in the campaign. Republicans in the House supported an amendment offered by Representative H. Carl Andersen of Minnesota to cut conservation funds by $50 million. Andersen claimed unless farm interests took the lead in cutting expenses, economy-minded legislators would reduce them even more. Andersen proved to be wrong, and in doing so left behind a Republican record of favoring cuts in the conservation program.

On the whole, therefore, the issue is likely to be the same as in 1948. The difference is the corruption issue, and the Republicans plan to make the most of it. But Brannan won't take this lying down. If the Democratic nominee for president will permit him, he will stump the country to protect his own reputation and that of the farm programs.

Costs going up. Agriculture Department economists have figured that overall costs of operating a commercial farm will be 5 to 6 percent higher this year than last.

Farm wage increases make up the biggest item contributing to the expected cost increase. It is estimated they will have risen 11 percent this year compared to last. Feed prices may increase 9 percent. There is one favorable item: The cost of building materials may average less this year than last.

R.E.A. telephones. It is now estimated that the government's farm electrification program is about 84 percent completed. But, only 38.3 percent of the nation's farms have telephone service. Therefore, the Rural Electrification Administration has undergone a reorganization to emphasize from now on the extending of telephone lines.

Loans totaling $60,500,000 have been made to 162 borrowers for building and extending telephone lines. Applications for the expenditure of $90,000,000 more are pending. Beginning July 1, 150 employees of R.E.A. will be shifted from the power-line program to the telephone program. It is predicted that in another couple of years as much money will be appropriated for telephone lines as for electric power lines. **END**

Here's Why Farmers Prefer

Firestone

TRACTOR TIRES

FARMERS everywhere have proven for themselves that the advanced design of Firestone Champions gives them the best all-around performance and pulling power, regardless of soil conditions. You'll prefer Firestone Champions, too, once you have seen them in action. Only Firestone Tractor Tires give you all these time-saving, money-saving advantages:

CURVED AND TAPERED BARS . . . For a sharper bite and greater penetration.

FLARED TREAD OPENINGS . . . To prevent soil jamming and to permit easy soil release.

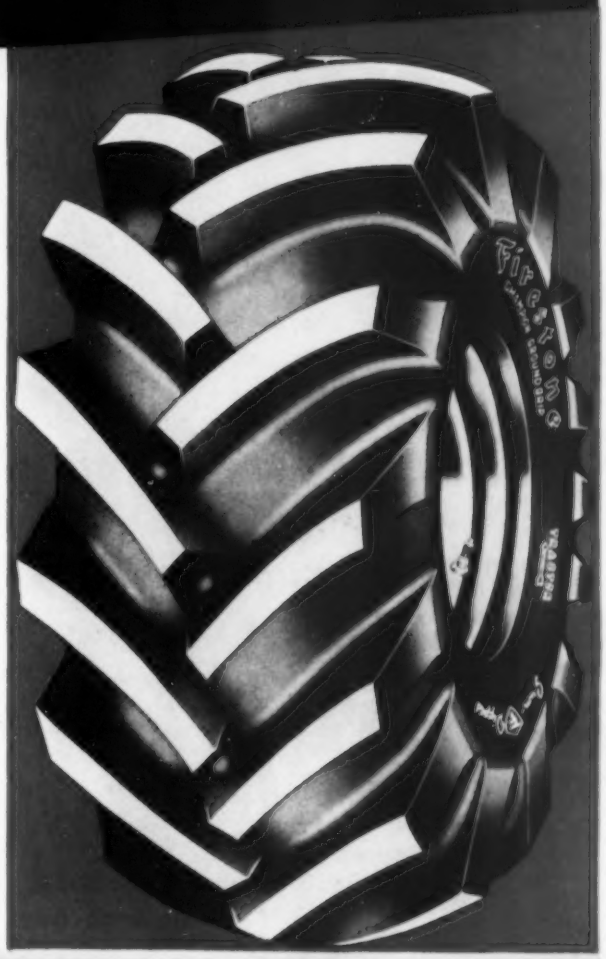
WIDE, FLAT TREADS . . . For greater traction power and longer life.

DUAL SHOCK PROTECTORS . . . Extra tread plies to absorb severe impacts.

A CHOICE OF TWO TREAD DESIGNS . . . Open Center and Traction Center patented tread designs.

Prove these many advantages for yourself. Let your Firestone Dealer or Store put a set of Firestone Tires on your tractor.

When Ordering a New Tractor or Other Farm Equipment, Specify Firestone Tires



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Books

for your pleasure and profit

By Robert West Howard

Year by year, writers and publishers are adding to the panorama of our Western heritage. Every farm family can make a valuable investment in tradition and pride by reading some of these books. Here are a few of the new books that will fill you with pride in the ancient heritage of your farm and cornfields:

Treasure in the Dust by Frank C. Hibben (J. B. Lippincott Co., Washington Square, Philadelphia 5, Pennsylvania, $5) reports on the archaeological research that is piecing together the story of the red man. It runs from the day—about 20,000 B. C.—he first ventured over the Aleutians to the American mainland until he reached the highlands of Peru and Mexico.

America Is West, edited by John T. Flanagan (University of Minnesota Press, Minneapolis, Minnesota, $3.75) pours the pageantry of the West into 677 pages of legend, literature, and poetry by our greatest writers. Abraham Lincoln, Hamlin Garland, Carl Sandburg, Sinclair Lewis, Vachel Lindsay, Grant Wood, and a hundred others chant the saga of prairie and mountains.

Navaho Means People with photographs by Leonard McCombe and text by E. Z. Vogt and Clyde Kluckholm (Harvard University Press, Cambridge, Massachusetts, $5) goes through the blanketed door of the Navaho's "hogan" into the daily life of what was once a great nation. The 180 photographs in this book—some of them pretty candid for the timid reader—constitute the best document I have seen on contemporary Indian life.

Indians of the Americas by John Collier (Mentor Books, 245 Fifth Ave., New York 16, New York, 35 cents) is a paper-bound reprint of a splendid history of the red man by the former United States Commissioner of Indian Affairs. An authority on American history recommended it to me four years ago as "the best book of its kind." It's been an overworked number on my reference shelf ever since.

Old Favorites From the McGuffey Readers (American Book Co., 55 Fifth Ave., New York 3, New York, $4.50) is as important a part of the American West as the Chisholm Trail. Here are 500 pages of selections from William Holmes McGuffey's great schoolbooks. **END**

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BUILT by Newport News Shipbuilding and Dry Dock Company for the United States Lines' transatlantic service, America's largest, safest, fastest superliner is 990 feet of luxury and comfort. World's most modern ship, she carries over 2,000 passengers at a speed of over 30 knots.

She's the new flagship of the American Merchant Marine—the latest of the many ocean liners whose powerful and costly engines are protected by the makers of Mobiloil!

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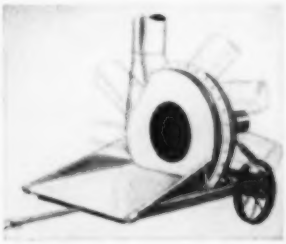
What's new *in farming**

Tips you can use today

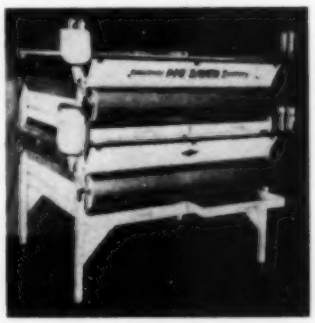
Tractor-mounted mill. This portable burr mill is designed for attachment to tractors with hydraulic lifts. The mill attaches to the hydraulic-lift arms the same as any other mounted implement. When attached, the mill is raised and lowered with the tractor's hydraulic system. When lowered to the ground, the mill is ready for use. The mill weighs 625 pounds and operates from the tractor power take-off. The swivel discharge spout rotates in a full circle and can be folded back over the elevator when the mill is moved.—*Knoedler Manufacturers, Inc., Streator, Illinois.*

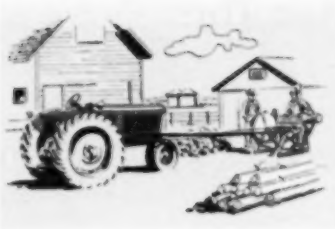
Forage blower. This blower features a drawn steel housing that can be rotated 180 degrees to blow in any desired direction. This feature is said to eliminate the loss of efficiency that results when pipe elbows are used. The machine can be used for blowing long green hay, chopped hay, silage, straw, vines, grain, or cobs. The blower also can be used for air-drying grain stored in cribs or granaries. A wide feed apron makes loading the blower easy.—*The C. O. Bartlett & Snow Company, Cleveland, Ohio.*

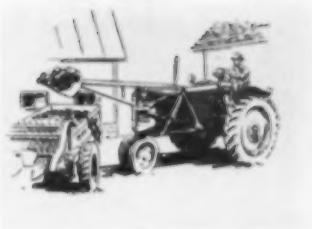


Fuel unit. This new fuel unit is designed to take care of all the needs for storing farm fuels. The entire stand assembly knocks down for shipment in a package 72"x5"x5" and is easily erected with less than 40 bolts. The entire unit is made up of one 300-gallon-capacity tank and one complete elevated stand with skids for easy portability.—*Butler Manufacturing Company, 7400 E. 13th St., Kansas City 3E, Missouri.*

Pig battery. This battery is designed for feeding synthetic sow's milk to baby pigs. The twin-deck steel battery accommodates 20 pigs—10 on each deck. The battery is large enough to take care of 20 pigs for two weeks. Mesh floors and smooth-sliding droppings pans help keep the battery sanitary. The metal feeding troughs have divisions to prevent pigs from crowding. Feeding jugs are fastened at one side of the battery and feed directly into the divided feeding troughs.—*James Manufacturing Company, Fort Atkinson, Wisconsin.*





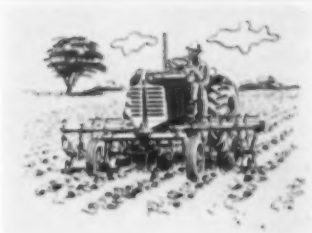


Talk About Handy!

Here is one tractor every farm can use— the Oliver "66"

One-tractor farms. Here the Oliver "66" is a natural. It's a full two-plow tractor . . . big enough for all field jobs . . . a year-round help in the yard . . . and a steady fuel-saver to boot!

Big farms. Farmers with larger acres find they use their "66" tractor when the others stay in the shed. It's so downright *handy* . . . for hauling, cultivating, mowing, spraying, grinding . . . for the hundred-and-one jobs just made for a tractor like this.



Whatever job it tackles, the "66" has everything it takes to make the work go better. Just look—

- **Husky Overhead Valve Engine, for top efficiency**
- **Six Forward Speeds, to meet all conditions**
- **Direct Drive Power Take-Off,* independent of the tractor clutch**
- **"Hydra-lectric" Hydraulic Lift,* controls tool depth from tractor seat**
- **Rubber Spring Seat, adjustable forward and back.**

Choice of fuels, too! Yes, you can now have this popular Oliver tractor in a gasoline *or* diesel model. See which "66" is the best for you . . . see your Oliver dealer.

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The Oliver Two-Plow "66", Gasoline or Diesel

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Please send the literature I have checked:
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ideas for the Farm

(for more information on ideas discussed here, see bottom of right column)

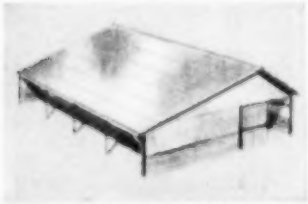
What farmer would not welcome a chance to boost his crop production 100%? Believe it or not, this is exactly

what's happening on many farms over the country where Portable Irrigation Systems are used. Irrigation Pipe made of rustproof Reynolds Aluminum is strong yet easy to carry—a 20-foot length of 4-inch pipe weighs only 16 pounds. Can be stored outside all year. Free 12-page illustrated booklet available.

The Most Insulation in the Smallest Package is Reynolds Reflective Insulation—aluminum foil on one or both sides of kraft paper. Reflects up to 95% of radiant heat. One 15-lb. roll contains

250 sq. ft. Quickly tacked or stapled. Will reduce interior summer temperatures up to 15°—an important factor in boosting hot-weather poultry and livestock production. Keeps buildings warmer in winter, too. See your Reynolds dealer and ask for free literature.

Low-Cost, Labor-Saving Barn is this pole-frame type. It can be built for half the cost of a conventional barn. And it



cuts in half the labor of handling feed and livestock. Simple construction uses treated poles, standard length lumber and Reynolds *Lifetime* Aluminum roofing and siding. Rustproof aluminum saves maintenance, needs no painting, aids production by reducing inside summer temperatures. Free folder on request; or complete erection plans and bill of materials available for $5.00.

Longer Roof Life is assured with asphalt-aluminum roof coatings—plus the advantage of aluminum's radiant heat reflectivity. And now you can identify dependable roof coating products by a Warranty Seal, or Label. It guarantees the right amount and grade of aluminum pigment in the right vehicle—which is *very important*. To be sure, look for the Seal shown here on every can you buy. Your dealer has it. Folder available.

Tests by Frozen Food Authorities as well as actual use in locker plants have proved that there is practically no shrinkage or change in flavor when meats and poultry are quick-frozen in Reynolds Aluminum Locker Wrap. Cannot absorb juices or stick to the product. Economical, too! Insist that your locker plant use it when freezing meat and other products for you. You will be amazed at the difference in preservation of weight and flavor. Illustrated folder on request.

Aluminum is now required for planes and other military needs. The products shown here are still produced but in limited quantities. If your dealer cannot supply, keep asking. They're worth waiting for.

Reynolds Farm Institute,
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Please send literature on: Irrigation ☐; Locker Wrap ☐; Insulation ☐; Roof Coating ☐; Low-Cost Barn ☐. (For Barn Plans, $5.00 enclosed ☐).

Name.....

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WHAT WAS NEW IN FARMING

50 Years Ago

This month, to observe *Successful Farming's* fiftieth anniversary, we've chosen from our 1902 issues some timely tips for the farmer and homemaker.

There will be days when you may be compelled to do chores by lamplight. The first time you do, drive some nails in the right places on which to hang the lantern. It will be far cheaper than to build a new barn.

A roadside watering trough. If you can lead a water pipe to the highway in front of your farm, don't fail to put in a handsome watering trough for the use of the public. It dignifies a place, and in most localities it causes some $3 a year to be deducted from one's taxes.

A good nap and a hot bath will add much to the beauty of a woman.

Coal oil will destroy bedbugs. Use plentifully. It will leave no stain—it evaporates.

Pies will be soggy if set on top of a hot stove.

In 1902 you could climb the ladder to success with mail dressmaking courses—no need to be a drudge

Never pass on curves! ***Thousands of accidents, costing many lives and huge property loss, are caused every year by reckless passing on curves. Drive safely!***

How much do reckless drivers add to your auto insurance bill?

HERE'S one reason State Farm Mutual automobile insurance rates are so remarkably low. In any community, State Farm aims to insure only careful drivers.

This means that the reckless drivers in your area—not eligible for State Farm membership—do not have to be considered in establishing State Farm's rates for your community.

And this, combined with other money-saving State Farm practices, makes it sound business for this great mutual company to offer all careful drivers top-quality protection and service at rates which may save you many dollars a year.

If your own careful driving entitles you to State Farm's low-cost, "careful driver" insurance, it will pay you to see your State Farm agent. Look up "State Farm" in your classified phone book.

Other benefits of State Farm membership

1. ***Semi-annual premium payments.*** Wouldn't it be easier on your budget to pay for your automobile insurance in two small payments each year, rather than in one lump sum? Advanced State Farm billing and bookkeeping practices make this possible for State Farm members—at no increase in cost.

2. ***Mutual benefits.*** State Farm is a mutual company. Savings from low claim costs and high operating efficiency are passed on to members, who actually own the company, in the form of lower insurance rates. On the other hand, State Farm policies are nonassessable. You never pay more than the established rate for any period.

3. ***Fast, fair claim settlement.*** More than 6,500 State Farm agents and claim representatives stand ready, day or night, to come to your aid in case of accident. State Farm cuts red tape—pays an average of one claim every 15 seconds, every working day.

4. ***Established leadership.*** State Farm now writes more full-coverage automobile insurance than any other company, with more than 2,000,000 members in the auto company alone. And new applications for State Farm insurance are coming in on an average of 2,000 every working day!

Look to State Farm for Life and Fire Insurance, too. See your agent!

State Farm Insurance Companies

State Farm Mutual Automobile Insurance Company
State Farm Life Insurance Company
State Farm Fire and Casualty Company

Home office: Bloomington, Illinois • *Branch offices:* Berkeley, California • St. Paul, Minnesota Lincoln, Nebraska • Marshall, Michigan • Dallas, Texas • Charlottesville, Virginia • Toronto, Ontario. • Field claim offices in more than 170 principal cities.

"this triangle trademark means quality to me!"

That's James Little, R. 4, Janesville, Wisconsin, talking. He runs a 120-acre dairy farm with a milkherd of 40 Holsteins, and raises 60 market hogs a year. Mr. Little's ten-foot tandem Case Disc Harrow equipped with LaBelle Discs gets a workout.

Here's more from Jim: "I worked 300 acres last year, and there's no sign of disc wear—no nicks—they're as good as new. If I set my disc, she'll set right in to the arbor bolt. When I have to buy disc blades, they'll be LaBelle again."

Thanks, Jim. Users of LaBelle Discs have been telling us this for more than 70 years. That's because Crucible's integrated steel operation enables us to build quality and durability right in; our own craftsmen make the steel that goes into *every* "slow-tempered" LaBelle Disc.

Look for the triangular trade mark of LaBelle, your mark of quality, available for every disc harrow or plow ever made; for your kind of farming.

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AGRICULTURAL STEELS

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OLIVER BUILDING, PITTSBURGH, PA.

STAINLESS • REX HIGH SPEED • TOOL • ALLOY
MACHINERY • SPECIAL PURPOSE STEELS

Protect your child from water tragedy

Summer's for fun, and to youngsters, summer fun means swimming. One way or another, they'll find a place to splash and wade.

But water fun can turn into tragedy if the youngster has not learned to swim. According to the National Safety Council, drowning takes the lives of more youngsters than any other form of accident except the automobile.

More often than not, these tragedies happen in unsupervised ponds and rivers where there are no lifeguards. The peaceful river whose surface looks calm from shore may have a fast undercurrent which sweeps a wader off his feet and drags him far downstream. Unseen deep holes in river bottoms are traps for unsuspecting waders. A pond that was safe for diving last summer may be a booby trap this year.

It's only common sense for parents to make sure their children swim *only in supervised pools and lakes* and that they *know how to swim*. Few water tragedies are reported among children who have had Red Cross swimming instruction.

Last summer the Red Cross organized 2,100 Learn to Swim schools and trained

[*Turn to page 26*

Free Red Cross swimming lessons such as those given in Muscatine County, Iowa, make water safety a part of the fun for children. School busses provide transportation

Using a towel or shirt to pull a drowning victim to safety is one of the lifesaving pointers taught by Red Cross instructors

Pulling a drowning victim over the stern of a boat, not the side, is another point stressed. Otherwise, boat will capsize

When flood waters threaten to pollute the public water supply, "king-size" quantities of chlorine are fed into the mains to prevent an outbreak of typhoid fever or other water-borne diseases.

When the floods come here's how "Your Unseen Friend" helps fight off the danger of typhoid

WHEN a river's on a rampage . . .

When a town's all but drowned by swirling tides of dirty, silt-laden, polluted water . . . that's when people are acutely aware of the danger of typhoid. Of the dramatic efficiency of their anti-typhoid "ground forces"—the sanitary engineers and "Your Unseen Friend!"

Come the floods, then portable chlorinating units are flown or trucked into the stricken area . . . to reinforce the chlorinating apparatus already there.

"King-size" quantities of chlorine are fed into the mains. And no matter how badly the town's drinking water is polluted, it's soon safe and drinkable.

As well as being death on the "Red Death" (typhoid), chlorine is also bad medicine for most metals.

That's why vital parts of certain control valves in chlorinating equipment and in the gas cylinders are made of Monel, a Nickel alloy.

Monel's corrosion resistance keeps these valves from failing when needed most. Its strength and toughness prevents damage when valves are opened and closed. This Nickel alloy protects them from excessive wear and scoring.

For all of Nickel's importance in this and other applications, you seldom see it. It's a *giving* metal—a metal usually intermixed with others to give strength, give toughness, and give other special properties.

That is why Nickel is called "Your Unseen Friend."

For the inquiring mind: Where does Nickel come from—who made this friendly metal useful, valuable? How is it possible to raise tons of ore thousands of feet and produce Nickel for your ever-expanding world of wonders?

This romance of men, mines, and machines, of developing resources, is in your free copy of "The Romance of Nickel." Write, The International Nickel Company, Inc., Dept. 744a, New York 5, N. Y.

The INTERNATIONAL NICKEL COMPANY, Inc.

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INCO **Nickel**... Your Unseen Friend

Baling is *Heavy Duty* Work!

Tractors Need Phillips 66 Heavy Duty Premium Motor Oil!

Tractors work hard and long on the farm . . . doing dozens of tough jobs like pulling and powering a baler. Hard, dirty work that puts a real strain on rings, pistons and bearings. So get the added protection of Phillips 66 Heavy Duty Premium Motor Oil. It protects your tractor engine even under the most severe conditions.

This great oil helps you cut maintenance and fuel costs, and reduces the need for engine overhauls. See your Phillips 66 Dealer or Tank Truck Driver—keep your tractor on the job!

Get Phillips 66 Heavy Duty Premium Motor Oil...

WITH ALL OF THESE IMPORTANT BENEFITS

LOW OIL CONSUMPTION: **Phillips 66 Heavy Duty Premium Motor Oil resists decomposition—keeps oil control rings free. Fewer make-up quarts are needed over long hours of operation.**

BEARING PROTECTION: **Engine acids are neutralized—so that bearing surfaces are effectively protected against pitting.**

CLEANING ABILITY: **A clean engine means more power, and less gasoline consumption—better all around performance!**

WEAR REDUCTION: **It reduces corrosive wear in your engine—guards piston rings and cylinder walls.**

FOR CARS, TOO! **Get Phillips 66 Heavy Duty Premium Motor Oil for that *extra* measure of protection you want for your car.**

GET NEW, IMPROVED *"Lubri-tection"*

Protect your child

From page 24

26,455 water-safety instructors to teach in their own communities. Perhaps one of these classes is within easy driving distance of your farm. If not, get together with other parents in your community and contact your Red Cross headquarters—usually located in the county seat—for information on starting a swimming program. Instruction is free.

Here are nine simple rules advocated by the Red Cross for safe fun in the water:

1. *Select a safe place for swimming and wading*, preferably one that is supervised.

2. *Don't try to show off with horseplay or abilities you do not possess.* The harm done to the victim of horseplay can be lasting, for it may result in a strong fear of the water. One frightening experience, and the beginner may *never* learn to swim.

3. *Don't go beyond your depth.* Take it easy at the first of the season until you build up your endurance. The fact that you could swim the width of a river last August—after practicing for three months—doesn't mean you can do it on your first swim this year. Distance swimming requires conditioning.

4. *Before diving, be sure the water is deep enough and free of underwater obstructions.* It's also important to consider the height of the place from which you're going to dive. Water deep enough for a "belly whopper" from a log on the bank may not be deep enough for you to dive safely from a branch of a tree growing on the bank.

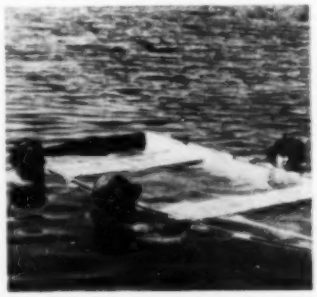
5. *Don't go swimming until two hours after eating.* When a swimmer goes into the water too soon after eating, he puts a double drain on his muscles, heart, and circulatory system, demanding that his body carry on the job of digestion and take part in violent physical exercise at the same time.

6. *Don't stay in the water too long.*

7. *Don't enter the water when tired or overheated.*

8. *Never go swimming alone.*

9. *Know how to save a person from drowning and how to apply artificial respiration* by completing a Red Cross lifesaving course. (See page 12 for information on how to administer the new system of artificial respiration.)—*Betty Camp.*

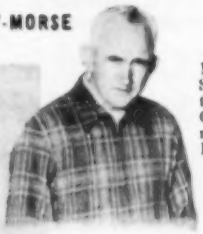


Hold onto swamped boat until help comes. Many drown while trying beyond their ability to reach shore too far away

"SEEDS AND SPARK PLUGS HAVE MUCH IN COMMON"

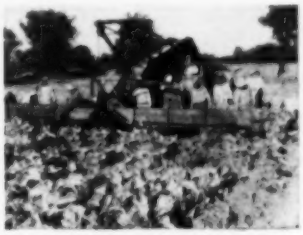
SAYS MR. DICK McKENNA OF FERRY-MORSE

Threshing garden peas with special harvesting equipment, designed by Ferry-Morse, and built to their specifications.



Mr. Dick McKenna, Superintendent of the Ferry-Morse Seed Co.'s headquarters ranch at San Juan Bautista, California.

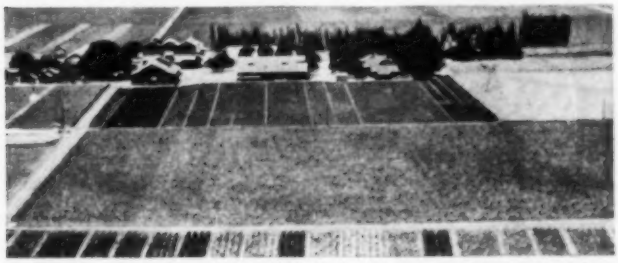
Gilbert Bentley, scientist at Oakview trial grounds near Rochester, Michigan, records cucumber trials.



A self-propelled vine seed thresher, designed by and built for Ferry-Morse, threshes Zucchini Squash.

Here in a fire-, earthquake-, rodent-proof vault are stored Ferry-Morse's irreplaceable foundation stocks.

John McCabe, Supt., and John Moran, Asst. Supt., record cabbage trials at Salinas (Cal.) trial grounds.



Air view of the Ferry-Morse Seed Co.'s 900 acre headquarters ranch at San Juan Bautista, California.

Founded in 1856, the Ferry-Morse Seed Co., has grown in fame until today its name is known throughout the world as a symbol of quality seeds.

At San Juan Bautista, California, Ferry-Morse operates 900 acres devoted exclusively and intensively to scientific growing of seed stocks. In addition, Ferry-Morse operates 430 acres of seed breeding stations and trial grounds in California, Florida, Idaho and Michigan, and uses over 40,000 acres of growing grounds in twenty states.

Quality control—testing, breeding, checking for trueness to type—and experimental work towards new strains and types are all part of the exacting routine.

Mr. Dick McKenna, Superintendent at San Juan Bautista, says, "As I see it, spark plugs are very much like seeds. Each starts and sustains a vital function. The better the seed, the better the results and the better the spark plug, the better the performance.

"We use a wide variety of power equipment in running our farm on strict schedule. These cars, trucks, tractors and special farming machines are equipped with Champion Spark Plugs—exclusively. We have found that, year in and year out, Champions give us the ultimate in spark plug performance, economy and dependability."

Dependable

CHAMPION

SPARK PLUGS ARE WELL WORTH ASKING FOR— BY NAME

CHAMPION SPARK PLUG COMPANY, TOLEDO 1, OHIO

Even Grimiest Hands Clean in 30 to 50 Seconds with amazing LAVA SOAP...

Of all leading soaps ONLY LAVA has "HAND-BRUSH ACTION" right in its creamy lather!

Contains thousands of tiny "scrubbers" that clean like a gentle hand brush—get dirt out of skin creases, 'round nails!

Zingo! Hands sparkling clean in seconds – no matter how greasy or grimy the chore! No ordinary toilet soaps compare. Yet Lava is *mild* enough for tots! Get plenty today. World's *only* leading soap with "Hand-Brush Action" right in its creamy lather!

Enjoy Lava's "Hand-Brush Action" *whenever* hands are washed!

★ Rich lather in hardest water!
★ Leaves hands softer, smoother!
★ Saves towels; no more smudges!

LAVA SOAP CLEANS LIKE A HAND BRUSH... LATHERS LIKE CREAM!

All around

Here are tips to help you save some time, space, steps, work

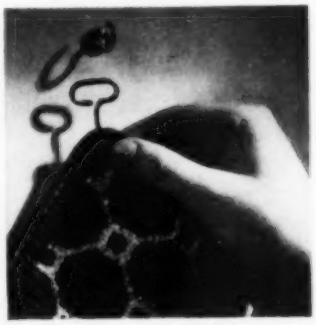
● An atomizer does a good clothes-sprinkling job for me. I use a large cologne bottle and find that the water is more evenly distributed with the atomizer. This is especially helpful for cotton dresses and shirts.—*Mrs. J. H., Iowa.*

● My children take a bigger interest in their appearance since I put a small mirror "child-high" in our bathroom. Brushing teeth and washing dirty faces become more fun and less work because the children can watch themselves in the mirror.—*Mrs. C. E., Minnesota.*

● I have difficulty copying recipes accurately when they are read over the radio. To be sure that I get the correct recipe, I now make a list of the basic ingredients which I know will be given for a specific recipe. Then, as the announcer gives the recipe, I write down the correct amount opposite the ingredient.—*F. P., Nebraska.*

● It took me a long time to discover that "rust" on partly used heads of lettuce was much worse when I cut the head with a knife. Now I always tear off the amount of lettuce I need for salads or sandwiches and no longer have this unappetizing discoloration and waste of good food.—*Mrs. E. M., Nebraska.*

● I save keys from coffee or other sealed cans and use them as pot-holder hangers. I sew the key in the corner of the holder



before binding the edges of the holder so the key will be securely held in place. I find that the keys are sturdier than cloth hangers.—*Mrs. C. H., Iowa.*

● My laborsaver is to place a pencil in the rural mailbox. Mail to be forwarded can be corrected at the mailbox rather than carried back to the house where it might get lost or delayed.—*Mrs. E. S., North Dakota.*

the house

● I made a handy holder for my scouring pads from an empty milk carton. I first cut the carton in half and, working with the bottom half, cut off three sides about 2 inches from the bottom of the carton. The fourth side was thumbtacked to the inside of my sink cupboard. A new holder can easily be made when the original holder becomes soiled and must be discarded.—*Mrs. R. N., California.*

● **Using pinking shears, I cut handkerchief-size squares from worn-out sheets. There's no harm done if the children lose their handkerchiefs while playing.—*Mrs. A. H., Illinois.***

● I wax the rockers and feet of my chairs at the same time as I wax my floors. The chairs will not mar the floors as easily when moved about.—*Mrs. C. S., Illinois.*

● **In making an apple pie, I sprinkle a small amount of grated cheese over the apples just before placing the top crust on the pie. It adds a deliciously different taste.—*Mrs. P. F., Nebraska.***

● It is easy to use insulated paper food bags as containers when mailing photographs or books. I find that the corners won't bend in the mail.—*Miss M. L., Illinois.*

● **My husband added a short piece of link chain to one end of my clotheslines. Now the slack can easily be taken up by hooking a link farther back on the chain. —*Mrs. E. H., Illinois.***

● I bought a set of short-handled measuring spoons and separated them. The tablespoon I keep in my coffee can, the teaspoon in my tea canister, ½-teaspoon in the baking-powder can, and the ¼-teaspoon in the box of baking soda. Now I'm ready for all measuring tasks.—*Mrs. A. G., Kansas.*

Successful Farming will pay $5 for each helpful suggestion published. We cannot return unused suggestions.—Editors

TRIPLE YOUR MONEY BACK

if you don't agree SURE-JELL Pectin makes jams and jellies with finer Real Fresh-Fruit Flavor!*

We make this offer to let you see for yourself that jams and jellies made with Sure-Jell have *more* of that rich *Real Fresh-Fruit Flavor*. Here's why:

Coded for freshness—you *know* Sure-Jell is fresh!

One-minute boil—saves precious juice and flavor!

60 kitchen-tested recipes—for perfect results, follow recipes exactly.

Highly concentrated—a *natural* fruit pectin product!

IT'S A FACT!

Almost 3½ times as many glasses of jam and jelly were made with Sure-Jell in 1951 than were made with *all other powdered pectins combined.*

***HERE'S ALL YOU DO to get triple your money back**

If you've ever made jams and jellies with finer *Real Fresh-Fruit Flavor*, just return the front panel of the Sure-Jell package (the one with the jelly glasses on it) to Sure-Jell, Dept. PW, 250 Park Ave., New York 17, N. Y. Include your name and address, what you paid for Sure-Jell, and 25 words or less on why the flavor disappointed you and what method of jelly making you prefer. You'll get back *triple* what you paid for Sure-Jell, plus postage costs.

A Product of General Foods

SURE-JELL is America's Largest-Selling Powdered Pectin!

Home Canning Hints

by Suzanne Ball

Home canning is home *saving*! Whether you put up berries and vegetables from your own garden, or buy when produce is cheap and plentiful, you cut next winter's food bills 'way down. And here are a few ways to save even more.

Lid with the Difference!

All closures are *not* alike. Ball Dome Lids are different because of the Dome, with its famous "Touch-Test" Seal. Just press to test. Dome down, jar sealed. So easy—so positive. Switch to Ball Dome Lids for premium protection of every precious jar.

Watch Those Bands!

You *can* use new Dome Lids with old bands. But bent or damaged bands won't seal perfectly. Be safe. Get Ball 2-piece Dome Caps, with unique 3-point-pressure bands that seal firmly all around.

Need New Jars?

Then of course you'll want Ball Dome Jars, the ONLY jars that come equipped with genuine Dome Lids. All sizes, ½ pint to ½ gallon, regular or wide mouth. Space-saving square shape, nonslip gripping ribs. Ball Jars outsell all others!

If You Prefer Zinc Caps

—chances are you already use Ball Zinc Caps, which outsell all other brands. Ball Zinc Caps are made of extra heavy zinc for long, LONG service. They seal all mason jars, even those with a nicked top edge that can't be sealed with a 2-piece cap. Be sure to get Ball Perfect Seal Jar Rubbers, too; they have handy tab for easy removal.

Get My Free Booklet

I've streamlined my latest canning and freezing recipes, methods, timetables, in a handy new booklet. Yours for the asking. Drop a postcard to:

BALL BROTHERS CO., Dept. SUF2, Muncie, Ind.

Guaranteed by Good Housekeeping

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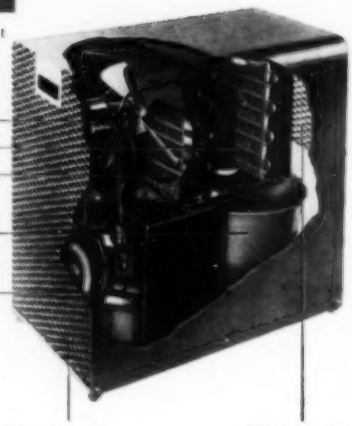
Why put up with basement moisture?

A modern dehumidifier is attractive, neat

Do away with "sweating" water pipes, musty basement odors. Drying the air may make your basement livable, more useful

By Maurine Harris

How a dehumidifier works:



Fan pulls the room air over refrigerated coils. The moisture collects on coils as it does on cold glass of lemonade on a hot day—then it drips into pail

It's hard to say how many dollars' worth of damage is done every year by unwanted moisture in our homes. Certainly the harm done to heating equipment, tools, freezers, and laundry appliances by rust and corrosion runs into a sizable amount. Mildew and rot move in to destroy leather goods, clothing, and papers stored in the basement.

Prolonged exposure to moisture warps drawers and doors, may damage framing and foundation of the house. The humid atmosphere of many basements makes them oppressive for use as laundry rooms or workshops, unhealthful as playrooms.

Installation of an electric dehumidifier may halt this expensive and annoying condition in your basement. It may be you can acquire a cool, comfortable place to relax and work during summer months.

New dehumidifiers vary in style (see pictures), but they are similar in the way they operate.

What dehumidifiers will do. The new household dehumidifiers "wring" quantities of moisture out of the air, but they aren't cure-alls. Good building methods and seepage prevention should be followed first—then you may reasonably expect a dehumidifier to do a thorough job.

Depending on the temperature and the relative humidity in the room, most dehumidifiers can remove 2 to 3 gallons of moisture every 24 hours. Most of the units are designed for use in enclosed rooms up to 8,000 or 10,000 cubic feet in size. Some models are designed to filter dirt and dust out of the air, too.

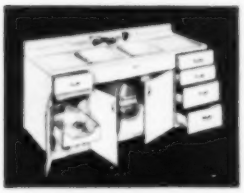
Installing dehumidifiers. No installation is required other than simply plugging the cord into an ordinary 110-115-volt outlet. There are transformers available which make it possible to convert the dehumidifier for use on other voltages.

[*Turn to page 88*

Check this timesaving, work-saving ideal against *your* present kitchen!

1. Sound-deadened steel construction; easy-gliding drawers, positive-closing doors.
2. Baked-on enamel finish—sparkles at the touch of a damp cloth.
3. One-piece, acid-resisting porcelain-enameled steel sink top with roomy, no-splash bowl.
4. Spacious, colorful, durable work surfaces.
5. Plenty of accessible storage space! Includes broom cabinet that's just like an extra closet, rolling-door cabinet for spices.
6. Half-Round Base What-Not—attractive storage for small appliances, knickknacks. Wall What-Nots—for added kitchen beauty.
7. Youngstown Kitchens Jet-Tower* Dishwasher really eliminates hand dishwashing!
8. Youngstown Kitchens Food Waste Disposer banishes garbage forever. 3 ways best! Fits Electric or Cabinet Sink.

This sturdy steel Youngstown Kitchen features Electric Sink and Food Waste Disposer.



Youngstown Kitchens Cabinet Sink, 66" DeLuxe Twin. One of 14 models. Two big bowls, two drainboards, rinse spray, swinging mixing-faucet. Sturdy steel with one-piece, acid-resisting porcelain-enameled steel top. Food Waste Disposer available at extra cost.

COMPARE your present kitchen for beauty and convenience with this gleaming-white Youngstown Kitchen. You'll find all you want in your dream kitchen is here.

Time savings mean added leisure hours for you! Work surfaces, storage space galore are placed just right to save you time, steps. And your all-steel Youngstown Kitchen is built to last a housetime!

Work savings! Youngstown Kitchens Jet-Tower* Dishwasher really eliminates hand dishwashing. Food Waste Disposer shreds waste down the drain, banishes garbage.

Your kitchen can reach this timesaving, work-saving ideal—no matter what its size or shape. Let your factory-trained Youngstown Kitchen dealer show you *your* dream kitchen in perfect miniature, show you how to save on installation, and how easy it is to finance. If building, specify a Youngstown Kitchen—you'll *save!*

MULLINS MANUFACTURING CORPORATION
WARREN, OHIO
Youngstown Kitchens are sold throughout the World

*Reg. U.S. Pat. Off.

Youngstown Kitchens

New Rotary Corner Wall Cabinet and Rotary Corner Base Cabinet put otherwise-wasted corner space to work. Cabinets have three rotating shelves that turn together to bring articles within easy reach, that provide plenty of room for dishes, canned goods, other items.

Youngstown Kitchens 48" Electric Sink with Jet-Tower* Dishwasher. Washes, flushes, rinses dishes hygienically clean. Exclusive Hydro-Electric Control.

Call Western Union, Operator 25, and without charge get the name of a nearby dealer.

Mullins Manufacturing Corporation
Dept. SF-752, Warren, Ohio
Send 24-page planning and decorating idea book.
I enclose 10c for mailing. (No stamps, please.)

I plan to build ☐ I plan to remodel ☐
I am interested in: Kitchens ☐ Dishwashers ☐ Food Waste Disposers ☐

NAME (Please print)
ADDRESS
CITY ZONE
COUNTY STATE

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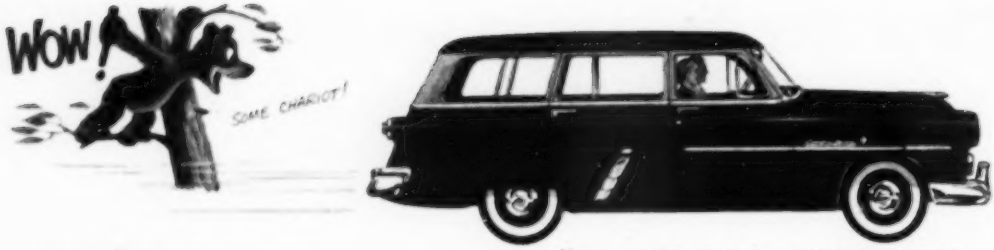


Handsome and handy is the new Ford Country Sedan! Use it to tote 8 people in style or a half ton of freight! The back seat lifts right out, the center seat folds flush with the floor! Powered by 110-h.p. Strato-Star V-8.

We call this 4-door beauty the Country Squire. You'll call it wonderful. Has all the new Country Sedan features . . . *plus* real wood trim over mahogany-finished steel panels.

What a car—what a value! It's the 2-door Ranch Wagon . . . the lowest priced station wagon in its field . . . with 110-h.p. Strato-Star V-8 or 101-h.p. Mileage Maker Six.

White sidewall tires optional at extra cost. Equipment, accessories and trim subject to change without notice.

Whichever Ford station wagon you pick, you have a star with more "can do" than any other in the low-price field!

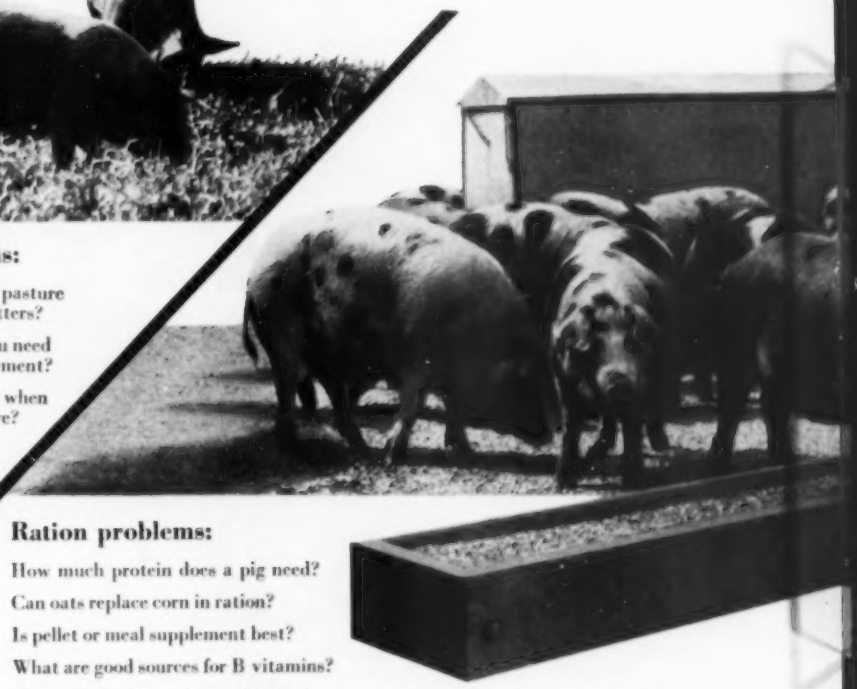
The greatest line of station wagons in the industry

WOWING 'EM EVERYWHERE!

....'52 FORD

You can pay more but you can't buy better!

What is your hog-feeding problem?



Pasture problems:

How important is good pasture for sows and growing litters?

On good pasture, do you need additional swine supplement?

Does creep-feeding pay when sows, pigs are on pasture?

Is a grass or a legume pasture best for pigs?

What supplement should you use?

Ration problems:

How much protein does a pig need?

Can oats replace corn in ration?

Is pellet or meal supplement best?

What are good sources for B vitamins?

How important are the antibiotics in a ration for fattening market swine?

By Hadley Read

Workers at the Illinois Agricultural Experiment Station recently jotted down the questions most often asked about hog feeding. Then they dug into more than 20 years of feeding research to find the answers. The questions and answers in this article cover both pasture and dry-lot hog feeding. Check these questions and answers against your hog-feeding system. You can't afford to miss any moneysaving ideas this year.

How important is pasture to sows and litters?

Mighty important from the standpoint of cheap, fast gains and final profit.

One acre of good rye pasture will carry 12 sows and litters next spring. And that acre of rye pasture may save you almost 100 bushels of corn and more than 500 pounds of supplement over dry-lot feeding.

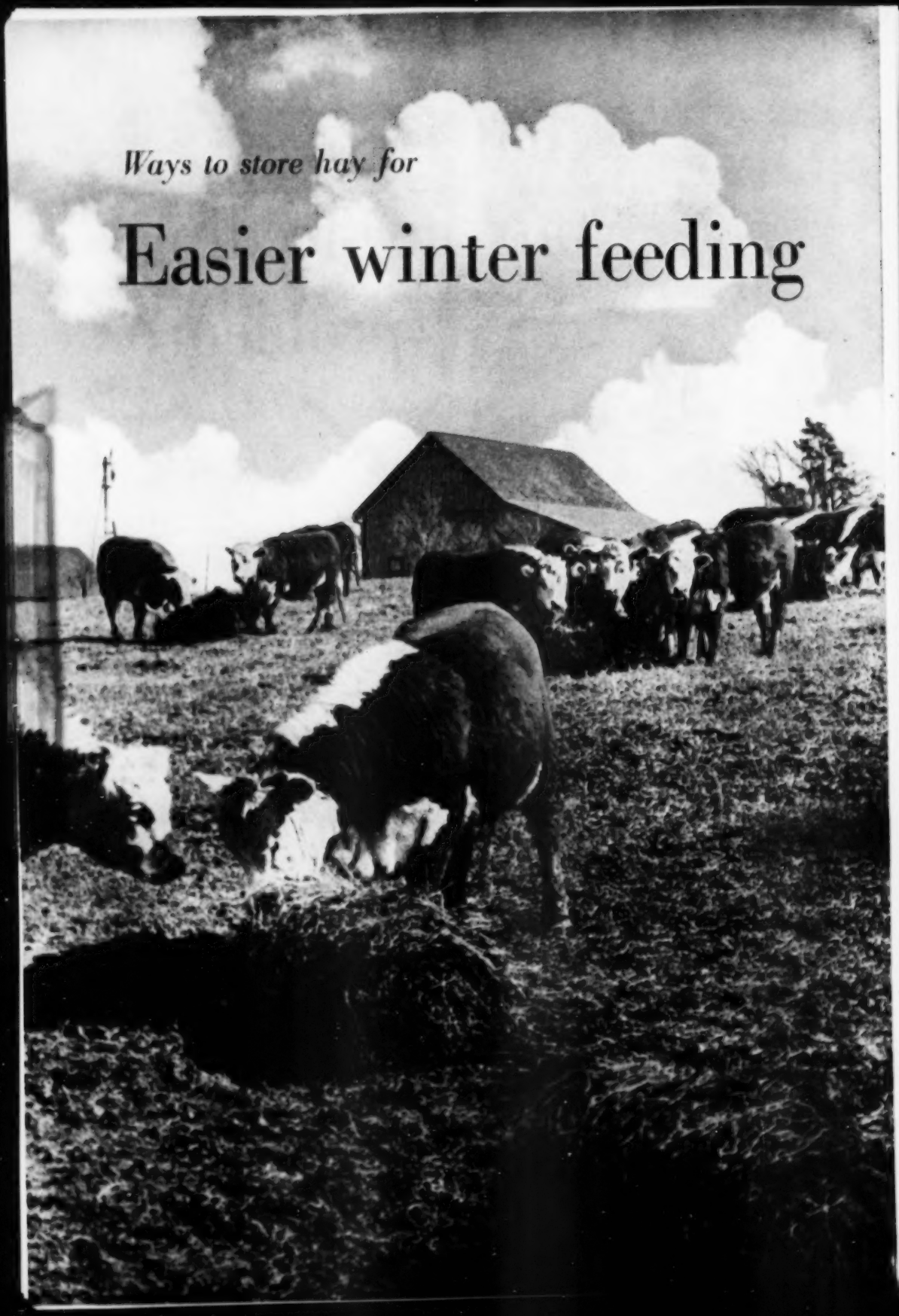
Other good spring pastures also are feedsavers. In one study at the Illinois station, an acre of alfalfa pasture for sows and litters in one month saved 18 bushels of corn. And this pasture also saved more than 500 pounds of supplement in a little over a month's time.

On good pasture, do you need an additional supplement for sows and pigs?

In four research trials, adding a protein supplement to a ration of yellow corn and minerals for sows and litters on pasture paid off. The supplement prevented a loss of weight in sows, promoted [*Turn to page 60*

Ways to store hay for

Easier winter feeding



Green hay: Build pit silo near feedlot for easy, fast feeding. Kenneth McCord, Colon, Nebraska, uses manure scoop to move grass silage from pit to mechanical bunk feeder in background

Loose hay: "Stacking is cheapest, easiest way to make hay," says Robert Williams, Saunders County, Nebraska, "and two men can do it." Stacker is used to move hay from stacks to feedlot

Here are some farm-tested haymaking ideas which will cut down your winter hay-feeding chores by eliminating several hay handlings

By Vernon Schneider

Plan your winter hay-feeding program at haymaking time! Whether you bale your hay, chop it, put it up loose, or make it into grass silage, a little forethought at haymaking time will save you hours of winter feeding time. Each haymaking method has its place. Weather conditions, the kind of livestock, and the size of your haymaking operation must be considered in choosing the methods of haymaking which fit your farm. Find multiple uses for haymaking machines to help justify costs.

Regardless of how you make hay, *store it near the feeding area.* Build grass-silage pits next to the feedlot. Feed loose-hay stacks in the field, or find a simple way to move the hay to the feedlot. Store chopped hay in the field in round stacks, using a picket fence to form the stacks, or blow it into the barn. In either case, a giant hay feeder can be rigged up which will reduce winter feeding time to almost nothing. Bales also can be self-fed.

Giant hay feeders, both commercial and homemade, go a long way in cutting down winter feeding chores. Pictured below are two ideas for using homemade hay feeders—one has a stationary manger, the other is shifted in as the cattle eat their way through the barn. Commercial hay feeders, designed to self-feed the hay, also are on the market.

Feeding the bales right out in the field is another hay-feeding idea which is fast taking hold, especially in the semirange areas. Farmers using [*Turn to page 66*

Photographs: Wilson, Hufnagle, Schneider

Chopped or baled hay: Giant hay feeder simplifies feeding for Charles Gocken, Cass County, Iowa. Large amount of hay is piled against manger. Bottom trough cuts waste – is used for grain feeding

Mow-dried chopped hay: Let cattle eat way through haymow. ➔ McCord spent less than 2 hours feeding 40 tons. Feeding gates, hanging by wire from cross cords, are moved back as cattle advance

➔ **Baled hay (round):** Leave bales in field for winter feeding, says Robert Howard, Brown County, Kansas. No hauling or stacking—spoilage is low. Cattle tear up bales, do a good cleanup job

100 years old but better than ever

By C. P. Fox

The land was perfect, the location was good, the farm buildings were fine—but the house, well, he could always remodel it.

These were the thoughts in Bill Vilter's mind on a particular Tuesday when he bought a 131-acre Wisconsin farm. The following Friday, Bill was married, and Mrs. Vilter's introduction to the new farm was both funny and disappointing.

"We drove over the fields first," Bill said. "Then we gave the barns a good inspection. I pointed out all the outstanding qualities—killed as much time as I could—but finally it happened. 'Let's look at the house,' Eleanor said.

"As we walked toward this 100-year-old unpainted structure, I could see burlap bags stuffed into some of the second-floor windows. 'The house has running water,' I said, but Eleanor soon discovered that the one faucet in the kitchen sink was the only running water in the house.

"It was windy that day, and as we walked into the living room, I saw the wallpaper billowing in and out as the breeze whistled through the uninsulated and cracked walls. Eleanor looked at this flapping paper, then at me—'Paper's loose,' I said meekly.

"We went up the creaking stairs, and, as we stood in the middle of the bedroom looking at the living room below through cracks in the floor, Eleanor saved the day. 'Won't it be fun to remodel this old house into our own home?' she said.

"That broke the ice, and from then on we made rapid strides. We went over the house with an architect to find out if it was worth remodeling. It was. The frame was solid, square, and plumb. The foundations were 80 percent good. Only the foundation under the west wing needed attention.

"Next, we made a floor plan of the house and determined the possibility of additions. We wanted to be sure our finished home would serve our needs comfortably. As it turned out, the old house was easy to expand and remodel at a big saving in money over a new building.

"For building materials, I went to Milwaukee and made a deal with a wrecking company for some used lumber. I brought out all the 2x6, 2x4, and 1x6 roof boards I needed for less than half what they would have cost new. This and other similar [*Turn to page 56*

BEFORE This is how the house looked when it was first built. Outside, it wasn't too bad, but inside it was a far different story. However, the old house was still sound when the Vilters bought it. They began remodeling the old home that year

Large workroom was provided after the first remodeling by closing in the breezeway between the house and the garage. The pine paneling in the workroom makes it easy to keep clean

Photographs: Photography, Inc.

AFTER Here's how the Vilter house looks today. Remodeled inside and out, it's better today than it was when built 100 years ago. Landscaping the big front yard is the final step in the remodeling job

Remodeled kitchen has plenty of storage, work space. The architect's suggestions for remodeling saved the Vilters needless expense and helped give them the easy-to-live-in type of home they wanted

Floor plans show how the old home was remodeled. The shaded areas on both the first and second floors show the house as it was when the Vilters bought it. Light areas are the new additions

For *fun in the sun*

5785. Playsuit and skirt appear to be a complete sundress when worn together. Remove the skirt and the one-piece suit is ready for sports wear. The wrap-around skirt can also be teamed with a bright cotton blouse for a summer extra. A bow tie adorns the neckline of the bare-back playsuit

5508. A pert blouse and pedal-pusher combination is perfect for play or just for relaxing. The three-quarter-sleeve blouse has turn-up cuffs and a coolie collar. It is designed for outdoor action but can also be worn with summer skirts. Pedal pushers have smooth-fitting waistband with button closing and pockets on either side

5508. Shorts and a sleeveless blouse spell cool comfort for the young miss in summer. Made from the same pattern as the sturdy pedal pushers, the shorts have two deep pockets which hold your belongings. Clever blouse collar will stand up coolie fashion as the three-quarter-sleeve blouse shown, or will open to a convertible style

5785 **5508** **5508**

By Carol Towers

Who wants to spend precious sunshine hours caring for summer clothing? No one! And smart dressmakers will see to it that their "extra hours" aren't spent in the laundry room. A careful choice of pattern and fabric will mean time saved and a more attractive you during warm weather. Avoid close-fitting styles—be sure, in particular, that there is plenty of "room" across the back and in the sleeves. Fabric choice is unlimited this season. The customary summer fabrics have been treated to resist wrinkles and iron easier. Synthetic fabrics offer quick drying, spot and mildew resistance, and require little ironing. Look for one or all of these advantages in your summer fabrics.

Back views and yardages for Advance Patterns on page 62

All hands help to fix Caesar Salad, Barbecued Beef Cakes, and Hash-brown Potatoes

Mom gets ready in kitchen

Dad finishes up outdoors

Take it outdoors

By Susan Menne

How long has it been since you took the food outdoors? How long since you let Dad do the cooking over a fireplace grill in the back yard? While you, stretched out full length in a lawn chair, supervised the operations for Family Project—Barbecue.

It's easy, you know, to eat outdoors. Especially easy for you, because the family will carry a goodly share of the load. So why not celebrate your independence on the anniversary of independence, July 4?

Here's the plan: Each of the recipes for our barbecue meal is set up with steps to do "In the Kitchen" and "At the Barbecue." Yours is the kitchen responsibility. You're lucky because you can do your job beforehand and then relax outside. Let Dad and the youngsters take over food and recipes at the outdoor fireplace. They'll love it!

Recipes on page 68

IRRIGATION—

will it work on your farm?

By George D. Johnson

Chances are you live within an hour's drive of a farmer who is irrigating—not a vegetable raiser or nurseryman, but a fellow like yourself who depends on pasture or corn. It would be worth your while to find out where he lives, and go see for yourself.

You might visit a farm similar to that of Robert Petzold of Newark Valley, New York. He lives in an area averaging 35 to 40 inches of rainfall per year—but he is sold on irrigation. Here is Petzold's own story of why he began irrigating and what he thinks of it:

"Because our farm overhead had been increasing every year, we were intensifying our farming operations to raise more feed on the same acreage without increasing labor costs.

"I had improved 86 acres of pasture, and during the spring and early summer, milk production held up. But I still had to feed hay and concentrates during July, August, and sometimes September.

"After studying a little about irrigation and seeing some of the results in this part of the country, I decided to invest in the equipment. I have an ideal situation for water—a creek borders nearly all my farm.

"It was impossible the first year to purchase all the pipe and nozzles I wanted, but I did buy a large enough pump and motor to handle my entire farm operation. I have a 1,200-gallons-per-minute pump powered by a 100-hp gas engine, with about 2,400 feet of 5-inch main pipe and about 1,000 feet of 4-inch lateral pipe. For the time being, I am using the large nozzles that cover 3 acres at a time. We are watering only our grassland at present.

"In 1951—a fairly normal year—we staked off several plots, and protected them from grazing to serve as check plots. Approximately 3 inches of water was applied per acre every 10 days (six times during the grazing season). I applied 100 pounds of ammonium nitrate per acre and 100 pounds of potash per acre.

"On the check plots, we obtained about three times the tonnage of grass from the irrigated plot as from the plot with no extra water. The cost of applying water, including labor, averaged about $1 per acre per each watering, or, approximately $6 per acre per year (depreciation not included). Cost of ammonium nitrate and potash ran another $5 per acre.

"Here are our results: The cattle did not eat dry hay or concentrates during the summer. Milk production did not drop. Total feed costs during 1951 for 132 head of cattle were $5,000 less than in 1950, when I had only 105 head. I noted that the cattle would always graze first where the water had just been applied or was being applied. There was a big saving with the cattle doing all the harvesting—avoiding wear and tear on harvesting machinery and cutting labor costs.

"Basing our opinions on these results, we are enthusiastic about irrigation and feel that our $6,000 system nearly paid for itself the first year."

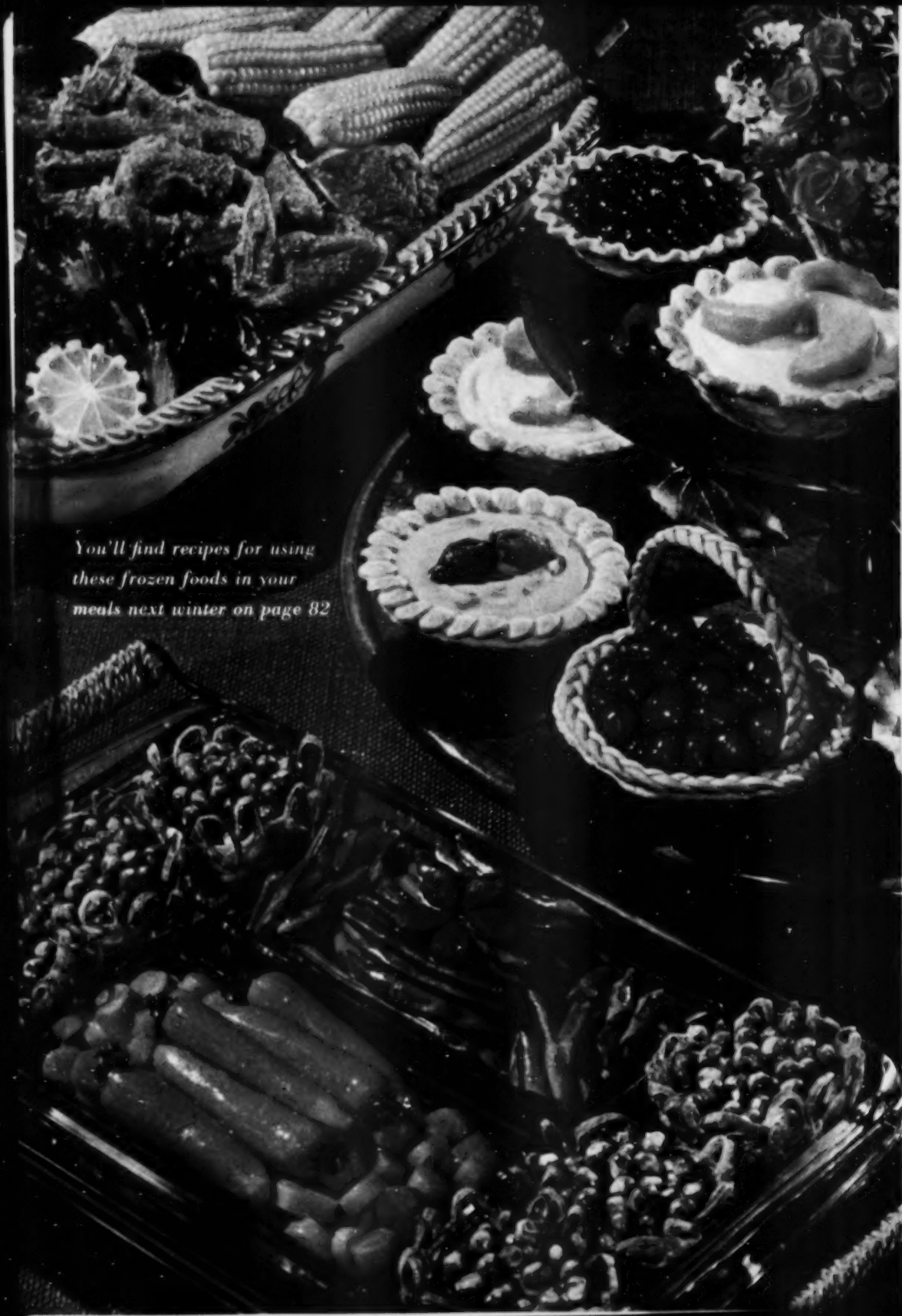
True, this is an extremely bright picture. Some farmers who have irrigated have been disappointed. But if you are willing to take the time, you can figure out the answers to the two big questions: "What will the returns be—how much increase in yields can I expect?" and "Can I irrigate—is water available, is my soil of the [*Turn to page 70*

Photographs: Hufnagle, U. S. Soil Conservation Service

Ditch irrigation is usually used only on the most level land. Row crops are irrigated with siphon tubes from the ditch (shown above). Hay, pasture, and small grain are flooded a section of the field at a time

Sprinkler irrigation on the Ernest Tempel farm, Seward, Nebraska. Tempel says, "If you have pasture or hay along with corn, irrigation is definitely a paying proposition." In corn he makes use of risers to raise the nozzles, sets up pipe in the morning, lets water run most of the day

Surface gated pipe is used by Melvin Schlechte, Waco, Nebraska. Many of his neighbors level their land and ditch-irrigate. Gated pipe is less expensive for him since his land is more sloping



You'll find recipes for using these frozen foods in your meals next winter on page 82

Freeze now

for summer meals next winter

By Elizabeth Page

It can be July in January (at mealtime, at least) if you freeze the best from your garden and orchard this summer. Fresh fruits and vegetables, with the flavor frozen right in, can be as much at home on blustery winter days as they are right now.

All the foods on the opposite page were frozen or made from frozen foods. Imagine how the crisp fried chicken, golden corn on the cob, and luscious fruit tarts will hit the spot six months from now.

Freezing is a wonderfully simple way to preserve foods. Follow the simple step-by-step directions below for individual foods and you can't go wrong.

Good packaging is the secret of success in freezing! Use packaging materials that keep air out and moisture in

Sour cherries: 1. Select bright red, tree-ripened cherries. Discard soft, overripe, bruised, or discolored cherries.

2. Stem, sort, and wash thoroughly. Drain and pit.

3. Pack cherries for pie in dry sugar. To retain their color, dissolve ½ teaspoon ascorbic acid (1,000 milligrams) in a little cold water. Sprinkle over cherries just before adding sugar. Add 1 part dry sugar to 4 parts cherries, by weight.

4. Pack in moisture- vaporproof containers.

5. Seal and freeze immediately at zero degrees.

6. To prepare cherries for eating: For pies, thaw until pieces of fruit can be separated. Add no sugar.

Peaches: 1. Select firm, ripe peaches with rich color in the skins. Freestone peaches are easier to peel. Handle quickly.

2. Wash and sort as to size. Prepare only enough for 1 container at a time. Scald whole peaches in boiling water 10 to 30 seconds, according to ripeness, for easier peeling. Chill quickly.

3. Pack in sugar syrup made by dissolving 3 cups sugar in 4 cups water. Add ½ teaspoon (1,000 milligrams) ascorbic acid for each quart of fruit. This step is essential to retain color and flavor of peaches. Place ½ cup syrup in pint container. Add peaches directly to syrup. Add more syrup, if necessary, just to cover.

4. Seal and freeze immediately at zero degrees.

5. To prepare peaches for eating: For pies, thaw just enough to separate fruit. Drain off syrup and add as juice called for in recipe. For shortcake, drain and serve on top of cake. For fruit dessert, partially thaw.

Photograph: Allen Snook

Blueberries: 1. Select fresh, large, tender-skinned blueberries that are fully ripened and of good flavor. Sort them to get berries that are similar in size. Blueberries are easy to handle because they ripen slowly. If necessary, the berries can be stored overnight in the refrigerator before processing.

2. Remove leaves, stems, and inferior berries. Wash in iced water; lift fruit from water and drain.

3. Pack berries dry without sugar in moisture- vaporproof containers.

4. Seal and freeze immediately at zero degrees.

5. To prepare blueberries for eating: For pies, thaw just enough to separate the berries. Then add the amount of sugar called for in the recipe and prepare pie as usual. For muffins, thaw the berries only enough to separate and mix into flour mixture before adding liquid.

Strawberries: 1. Select fully ripe, firm berries that are bright red and slightly tart in flavor. Avoid seedy or defective berries. Handle immediately after picking.

2. Sort berries; wash a few at a time in iced water. Lift berries out of water, drain, and remove hulls. Leave whole or slice ¼ inch thick. Sliced berries are better than whole berries because they stay firmer and usually retain a better flavor.

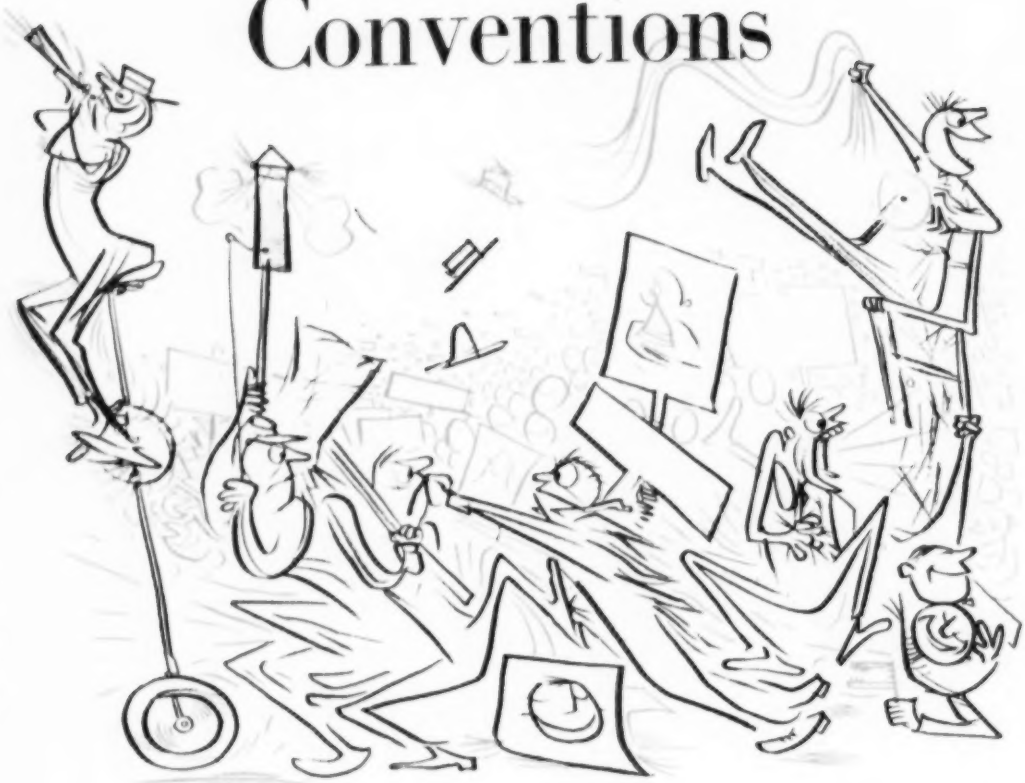
3. Pack *sliced* berries in a sugar pack. Use 1 part sugar to 4 parts strawberries, by weight. Pack *whole* berries in sugar syrup made by dissolving 3 cups sugar in 4 cups water. Place ½ cup syrup in pint container. For sliced berries, slice them into syrup. Add more syrup, if necessary, just to cover the fruit.

4. Seal and freeze immediately at zero degrees.

5. To prepare for eating: For pies, thaw just enough to separate fruit. When using syrup pack, drain off syrup and add as juice called for in recipe. Add no sugar. For shortcake, partially thaw fruit and place between layers and on top of cake. [*Turn to page 72*

There's nothing conventional about the

Conventions



By Gordon Sabine

Whistles blow, bells ring, sirens wail, horns rasp. People shout, cheer, yell, scream. Hats sail through the air; parades form; cards, banners, flags wave. Fights start, strangers embrace, ordinarily dignified people leap on chairs, go into Indian war dances.

Insane asylum? No. Invasion from Mars? Not in the slightest. It's just a normal, everyday, routine happening at a national political convention.

This is election year, with both the Republicans and Democrats meeting in Chicago in July. Soon you'll be following them through their gymnastics and gyrations in the papers, on the radio, and on television.

These wild, windy, wacky conventions will prove without a doubt that lung power (at times) can exceed brain power. Their "pointing with pride" and "viewing with alarm" will cost a couple of million dollars. And while their actions may not be the most democratic, they'll do the job they're supposed to do—present the American people with candidates for president and vice-president in the November election. Candidates who will be having a lot to say about your farming for the next four years.

Our Constitution doesn't say a word about conventions. The idea just sort of grew, beginning about 120 years ago. And—despite all the criticism they've taken—no one's yet come up with another plan even half as good. Sometimes conventions merely formalize informal decisions already made behind the scenes, but always they're useful for advertising purposes. They arouse emotions, create enthusiasm, and feed the fires of the faithful—who like to be reassured.

All this, despite the fact that in more than half the conventions held so far, the wheels have been so well oiled that the presidential nominee has been picked without the slightest argument—on the very first ballot. (Look at the Democrats in 1936. No one was even thinking about challenging Franklin Roosevelt for renomination, John Nance Garner was going in as vice-president, the party platform was all written in the White House a week before.)

But conventions aren't conventional, either. Take the Democrats again, this time in New York City, in 1924. A thousand delegates voted for 10 steaming-hot, weary, frustrating days. In utter exhaustion, they finally got together on the one hundred third ballot.

One of the slickest campaign deals of all time was pulled by the backers of Abraham Lincoln in 1860. William Henry Seward (he later bought Alaska for us from the Russians) apparently had the Republican nomination all sewed up as the convention started. But when the time came to ballot, somehow the clerk couldn't seem to find the tally sheets, and the voting had to be postponed.

That gave an extra day's time to the campaign managers of "the gentleman from the West" (Illinois was in the West

Here are some of the highlights—and lowlights—that make our national conventions the greatest political shows on earth

in those days). All they did during this 24-hour reprieve was:

1. Forge 1,000 tickets to the gallery, so their leather-lunged henchmen could steal those seats from the Seward men and help stampede the spectators for Lincoln.

2. Trade two cabinet posts and the job of commissioner of Indian affairs for the important votes of the Indiana and Pennsylvania delegations.

Those gallery yellers were so good that when Lincoln finally did get the nomination, a couple of cannons were fired from the roof of the convention hall, but the people inside couldn't hear 'em, so great was the racket. (Honest Abe, incidentally, wasn't in on any of the shenanigans—he was shooting a game of billiards back home in Illinois.)

Back in 1839, the Whigs (one of our first post-Revolutionary parties) were able to hold a convention in a Lutheran church in Harrisburg, Pennsylvania. Today, only the largest metropolitan cities can handle the 1,000 or more delegates, as many more alternates, and 15,000 to 20,000 party officials, dignitaries, and candidates' friends who throng in.

Some conventions bring bitter fights. In 1912, when Teddy Roosevelt made a third-term bid, 205 of his delegates were bounced from the assembly, so they just up and became the strongest third party we'd ever known. That year the Progressives polled 4 million votes, got 11 times the electoral votes of their parent Republicans.

It is in situations like these that "dark-horse" candidates sometimes pop up. In 1868, the Democrats had trouble agreeing on a candidate to oppose General Ulysses S. Grant. For 21 ballots, they split their support among a half-dozen men—and then on the twenty-second, they voted unanimously for Horatio Seymour, of New York. Seymour hadn't gotten a single vote before that time.

Two men have been nominated for the presidency (by minor parties) while behind prison bars. (They didn't get in—or out.) Several vice-presidential nominees have refused to run. One vice-presidential candidate (a Republican) died six days before election, and had to be replaced by a man just named arbitrarily by the national committee.

Conventions always have the element of uncertainty. The political bosses may have a perfect plan, but get fooled by a late-rising star, a candidate whose popularity leaps just before the convention or even on the floor of the convention itself. In 1940 Wendell Willkie, a converted Democrat, came from nowhere to win the G.O.P. presidential nod. So, too, was the rise of William Jennings Bryan at the 1896 Democratic convention. The big issue that year was whether the United States would permit free coinage of silver. When Bryan thundered forth, "You shall not press down upon the brow of labor this crown of thorns, you shall not crucify mankind upon a cross of gold," the convention went wild, and named him its candidate.

How does a man get to be a [*Turn to page 78*

Stanchion or loafing barn? We like 'em both

Friendly rivalry makes the work of dairying easier for the Jungbluths. Here, they compare production records for each barn

By Hans Dickinson

Joe Jungbluth and his five sons operate two dairy farms in Waukesha County, Wisconsin. On one farm they use a stanchion barn, and on the other a milking parlor-loafing barn setup.

While the loafing barn is the newer of the two, these dairymen have each formed opinions as to the merits of the two methods of handling a dairy herd. The Jungbluths have "no bones to pick." Every day, they use both methods, handling chores with the usual farm routine.

In a way, the Jungbluths were forced into their present situation of having two different types of dairy barns. When fire destroyed the barn on one farm, they had to get another barn up in a hurry. The possibility of a loafing barn was brought up. Joe thoroughly investigated this type of milking setup. He and one of his sons went to Madison where the University of Wisconsin had installations and plenty of ammunition in the way of costs and economies to show them. They also visited farms with milking parlor-loafing barn facilities.

When the decision was made, it was in favor of the loafing barn. By March, 1949, construction was complete, and the herd was producing milk in the new setup.

Joe figures that the new loafing barn, a new silo, milking parlor, and calf pens cost him approximately $14,000. This, he figures, was a few thousand dollars less than a 35-unit stanchion barn would have cost. The loafing barn will handle a maximum of 35 head [*Turn to page 80*

Stanchion-barn cows are fed three times a day. Feed cart is used by Paul to save feeding time

Cloth and warm water are used to wash cows' udders in the stanchion barn just before milking

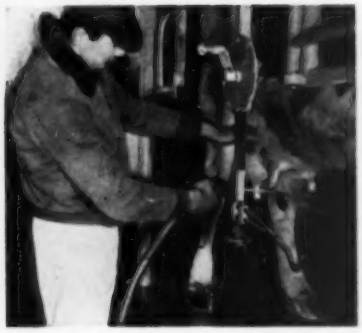
Milking in the stanchion barn takes great amount of stooping, as shown above

Milk stool is still an essential piece of equipment for stripping cows in stanchion barn. Cows in both barns are hand-stripped

The stanchion-barn section

"In the stanchion barn we can handle each cow individually. We can give them special feed and special care. The cows stay much cleaner in the stanchion barn, so it doesn't take as long to clean them up at milking time. We don't have the problem of getting enough bedding for the stanchion barn, as we do for the loafing barn. But we do have the problem of cows' injuring their udders and developing stiff legs. Our cows housed in the stanchion barn are much smoother in appearance. We can't see much difference in milk production between cows in the two barns."

Feed is available to the cows at all times in the loafing barn. Here Jerry fills the feeding trough



Washing udders before milking in the loafing barn is easy with the elevated stalls and hose

Putting milker on cows in loafing barn is done from standing position by Joe, Jr.

Photographs: Photography, Inc.

The loafing-barn section

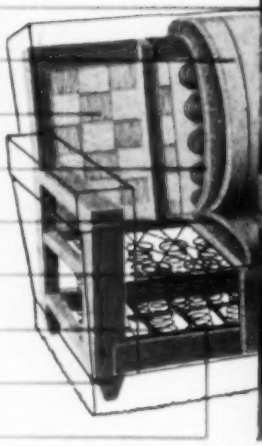
"We think we can get more years of milk production out of a cow when she is housed in the loafing barn. Cows housed in this barn never seem to have trouble with stiff legs. Cleaning this barn isn't the everyday chore it is in the stanchion barn. However, bedding the loafing barn is a problem. It takes lots of straw. The milking parlor may not be less work, but it certainly is handier work. In the loafing barn, we have never had a cow injure her udder or teats or go off feed due to lack of exercise. We have had our share of these troubles with the cows housed in our stanchion barn."

Cows are stripped after the milking machine is removed. Cow's udder is always in plain view of operator

Here's how to select and buy

upholstered furniture

To get the most for your money, you should check four important points when purchasing upholstered furniture: construction, comfort, covering, and design



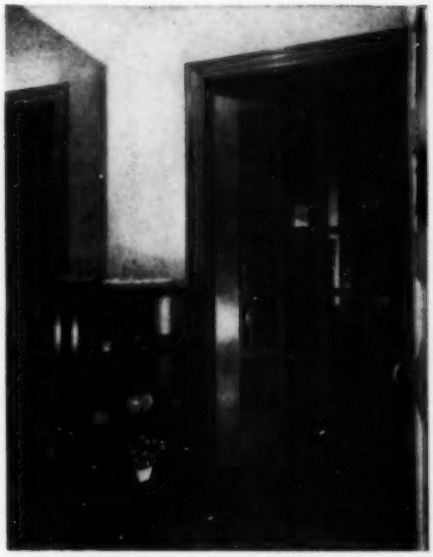
By Joan Bradshaw Scovel

Have you wondered why that easy chair you got at such a bargain last year already sags under your weight? You will have better luck next time if you check a few points of construction before you say, "I'll take it." Since price doesn't always insure quality, it is up to you to inform yourself so that you may detect inferior quality or a superior product.

As a double assurance of a good investment, buy from a reliable dealer—one who buys from well-known manufacturers who guarantee the quality of their products. There are many things concerning construction that are impossible for you to detect. On these points you will have to take the advice of your dealer. Furniture is a major financial investment, so be sure you know the firm and can count on its integrity.

The following list of things to check makes an excellent score card when buying upholstered furniture. Often, it is impossible to get the style you want, the best construction, most comfort, and the longest-wearing fabric all in one piece of furniture. You usually will have to sacrifice a little on one of these. Consider what is most essential to your needs and then decide what you can afford to forgo.

Comfort. Uncomfortable chairs and sofas are poor investments. Lacking comfort, the piece has little value despite excellent workmanship, lasting cover, or good design. Most furniture is designed to fit a person 5 feet 8 inches tall. A standard easy chair has a seat depth of 22 to 24 inches, and is 17 [*Turn to page 98*



BEFORE Dark woodwork, old-fashioned paned-glass door add up to a gloomy hallway. Cabinet holds odd assortment of objects. Mirror isn't used to best advantage

AFTER Fresh white paint, louvered doors, and checked paper were the ingredients used in working this transformation. Glass shelf is supported with brackets, holds figure and greens. Mirror reflection adds to the size of small room

Make your hallway *say welcome!*

Try building a cupboard into a narrow stair hallway and let the doors swing open. A perfect place for collections out of harm's way. Desk beneath makes good telephone spot

The hallway in your home may not be large, but it should give a hearty sense of welcome to anyone who steps inside your door. Too often this important room becomes a dark catchall for muddy rubbers and hastily thrown overcoats instead of an attractive place which makes your guests and family feel they are in a well-ordered home.

The needs and tastes of you and your family should be the first impression your entryway gives to guests. A hobby, a need for more storage, or simply a desire for more color may be the starting point for decorating your hall.

Good lighting is important in the welcoming warmth of your entryway. The best-decorated hall looks dreary and dismal under the unflattering light of a naked bulb suspended from the ceiling. So, when planning the light for your hallway, be sure your fixtures are in keeping with the style of furnishings in your home. Brass reproductions of old oil lamps are in keeping with many types of decoration, or if you prefer, indirect lighting presents a dramatic effect.

You can use wallpaper or paint to decorate your hallway just as you would use furniture or pictures. A bold geometric design turns [*Turn to page 102*

Culling your profitmakers

Slimmer profits in the poultry business call for greater flock efficiency. Make sure that every bird in your flock is paying her way

Put your culling operation on a year-round basis. Twice-a-year culling won't do the job. Today's profitable farm flock not only requires a thorough pullet culling at housing time but a watchful eye for hens lying down on the job throughout the laying season.

Here are points to consider in a year-round culling program:

(1) Buy quality chicks from a dependable hatchery. You can cut down on culls by starting chicks with good breeding behind them.

(2) Give proper attention to pullet development. Clean range, freedom from diseases and worms, and plenty of feeder and waterer space assure you of a healthy, properly developed pullet to go into your laying house.

(3) House only healthy, properly developed birds. Cull your pullets closely and do it early. Don't make the mistake of leaving your pullets in an overcrowded range shelter after they reach 10- or 15-percent production.

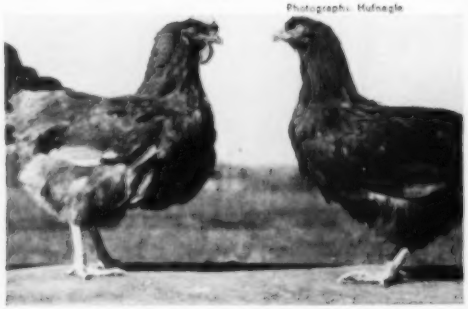
(4) Keep culling throughout the laying season. Go through the laying flock each week and weed out the birds which have gone off the production line.

Pullet culling and laying-flock culling are quite different. Each requires a different set of rules. First let's [*Turn to page 86*

Photographs: Hufnagle

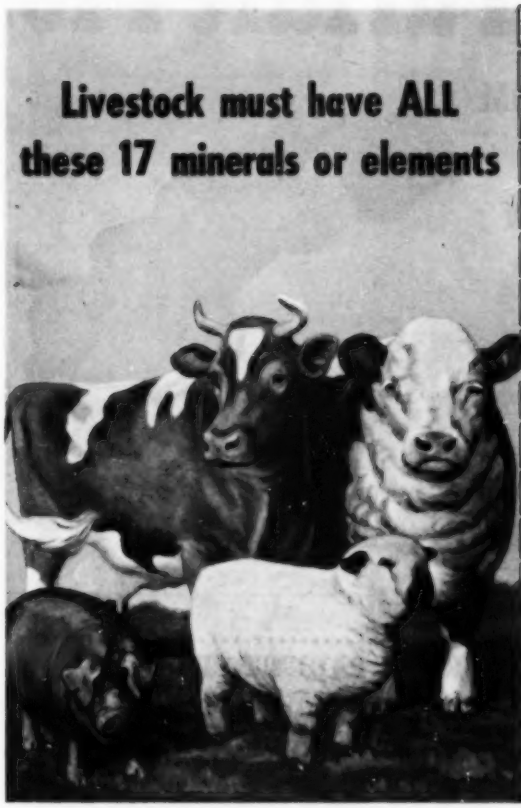
A deformed eye (bird at left) such as irregular iris or pupil is a bad sign. So is a gray eye. This bird can be a disease spreader

Crooked breasts make No. 2 meat. Banish such birds from your breeding flock; trait is heritable



Pullet at left is what you'd pick. Why? Because she looks more rugged, is nearer sexual maturity. She's alert; comb quite red; eyes are bright and prominent

Here's why it pays to build your mineral feeding program around Morton's Free Choice Trace Mineralized Salt



OXYGEN — Needed for the oxidation of nutrients and energy.

HYDROGEN—A part of all important body fluids.

NITROGEN — The foundation of all tissues, particularly of proteins.

CARBON — The basis of the carbohydrates—needed for energy.

CALCIUM — For sound teeth, sturdy bones, and certain enzymes.

PHOSPHORUS — Essential to all cells, various enzymes. Works with calcium in bone formation.

POTASSIUM — Important to nerves, muscles, growth, and important enzyme groups.

MAGNESIUM — For normal structure of growing tissue; certain enzymes.

SULPHUR — For certain amino acids, insulin, various enzymes.

CHLORINE — (from salt) For hydrochloric acid needed in protein digestion.

SODIUM — (from salt). Maintains fluid balance of the body. Stimulates heart muscle.

IRON — For red blood corpuscles. Important to certain enzymes.

COPPER — Helps iron in blood formation. Activates certain enzymes. Needed for reproduction.

COBALT — For healthy intestines; Vitamin B_{12}; bone marrow.

MANGANESE—Needed for reproduction; milk flow; healthy intestines; bones.

IODINE — For thyroid gland which controls all bodily activities.

ZINC — Plays an important role in the digestion of carbohydrates.

WATER — Takes its proper place only when we realize that a body can exist longer without feed than without water.

FEED — Nature originally intended that the animal should get all the minerals it needs through its feed. Because of heavy cropping and erosion, our crops no longer contain them adequately. Additional minerals must be provided.

BONE MEAL AND GROUND LIMESTONE — Here is the easiest, most economical way to provide a complete mineral ration. In one side of a divided mineral box, put a mixture of bone meal and ground limestone, or their equivalent. These provide calcium and phosphorus in quantity as well as traces of sulphur, magnesium and potassium.

MORTON'S TRACE MINERALIZED SALT — In the other side of the mineral box, put Morton's Trace Mineralized Salt. This provides the chlorine and sodium of salt, as well as adequate amounts of iron, copper, cobalt, manganese, iodine, and zinc. Minerals are important to bone, blood, muscle tissue, and vital organs. They also help control the enzyme, vitamin and hormone functions that build nutrients into growth, heavy production and healthy young.

LIVESTOCK thrift and profits depend upon ALL seventeen of these elements. An extra supply of some never makes up for a deficiency of others.

Failing to get an adequate supply of any one, animals are not as profitable as they might be. They have difficulty in breeding. Calves are small. Litters of pigs are weak. Beef animals fail to make the best use of their feed. Dairy cows produce less milk. Sheep have thinner fleece.

Nature originally intended that animals should get *all* of these essential minerals in their water and feed. For the most part, that's no longer possible. Because of heavy cropping, and wind, sheet and gully erosion our soils are often deficient. Crops grown on those soils are likewise deficient. Moreover, because we have bred up our animals, because we expect more of them, they actually need more than even nature supplied originally.

The simplest, most economical way to supply all of the minerals is Morton's Trace Mineralized Salt in one side of a divided mineral box and a mixture of bone meal and ground limestone, or their equivalent, in the other.

This combination provides for the minerals which are needed in quantity — calcium, phosphorus, and salt. It also supplies, through the salt, the trace minerals — cobalt, manganese, iron, copper, iodine, and zinc, which are needed only in very small amounts.

In this way your animals get the minerals they need — the plan is complete. Fed free choice, livestock can take what they want and need — their instinct is an unerring guide. Your reward is healthier young, faster gains, bigger production of meat, milk, and wool, thriftier use of feed, and greater profits from your livestock operations.

It costs only a few cents more per animal per year to feed Morton's Free Choice Trace Mineralized Salt than salt alone — so little that every pound of salt fed to livestock should be Trace Mineralized Salt. Your dealer has Morton's Free Choice Trace Mineralized Salt in stock. Ask for it by name — feed it free choice.

FREE — Just off the press, this 52-page book gives you the complete facts on feeding salt and trace minerals to all classes of animals . . . shows how and why salt and trace minerals are so necessary for low feeding costs and maximum livestock profits. Mailed free and postpaid.

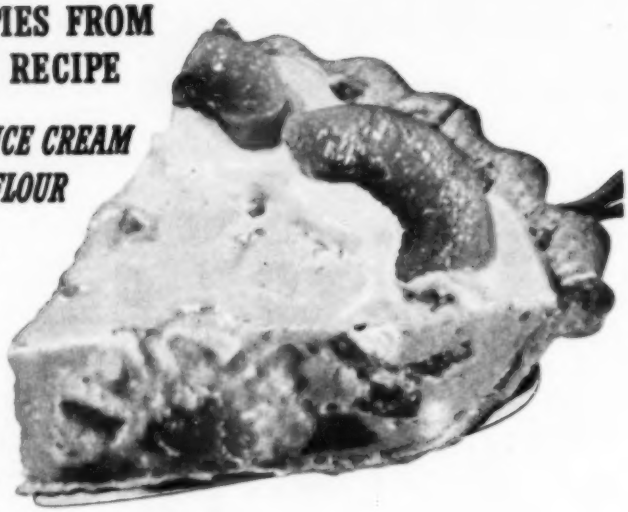
MORTON SALT COMPANY
P. O. Box 781, Chicago 90, Illinois

Ann Pillsbury's amazing discovery...

Ice Cream Parfait Pie

300 DIFFERENT PIES FROM ONE SIMPLE RECIPE

MADE WITH JELL-O, FRUIT, ICE CREAM AND PILLSBURY'S BEST FLOUR



New, completely new sensation in flavor and texture. The secret lies in combining ice cream, Jell-O and fresh fruit.

New texture! Lighter than cream pie, smoother than chiffon pie.

New taste! Exotic new cream and fruit flavor.

New ease! No cooking of filling, only minutes to mix. Just one simple measurement.

New assurance! It's foolproof—perfect results every time.

New variety! Make pies of many, many flavors by variation of this one recipe idea. *Recipes for many kinds of Parfait Pies in every bag of Pillsbury's Best.*

Ann Pillsbury's PEACH ICE CREAM PARFAIT PIE

This recipe was developed by Ann Pillsbury for Jell-O and Pillsbury's Best. They are required for perfect results.

Make many wonderful pies from this one basic recipe—strawberry, lime-pineapple, lemon, orange-coconut and many others.

FILLING

FILLS 9-inch pie shell.

Prepare.... 9-inch pie shell as directed at right.

Heat..... 1¼ cups **water** to boiling in 2-quart saucepan. Remove from heat.

Add..... 1 package **Lemon or Orange Jell-O**; stir until dissolved.

Add..... 1 pint **vanilla ice cream**, cut into pieces, to hot liquid; stir immediately until melted.

Blend in... ½ teaspoon **almond extract**

Chill..... until mixture is thickened but not set, 25 to 35 minutes.

Fold in.... 1½ cups sliced fresh **peaches**, sweetened if desired.

Turn..... into cooled, baked pie shell. Chill until firm, 25 to 30 minutes. Top with whipped cream and additional peaches, if desired.

FLAKY CRUST

BAKE at 425° F. for 10 to 12 minutes. MAKES 9-inch pie shell.

Sift together 1 cup sifted **Pillsbury's Best Enriched Flour***
½ teaspoon **salt**

Cut in..... ⅓ cup **Homogenized Spry** until particles are the size of small peas.

Sprinkle 2 to 3 tablespoons cold **milk** over mixture, tossing lightly with fork until dough is moist enough to hold together. Form into a ball.

Roll out... on floured pastry cloth or board to an 11-inch circle. Fit pastry loosely into 9-inch piepan. Fold edge to form a standing rim; flute. Prick crust with fork.

Bake..... in hot oven (425° F.) 10 to 12 minutes. Cool.

**If you use Pillsbury's Best Enriched Self-Rising Flour, omit salt.*

GUARANTEE—Results guaranteed only with Pillsbury's Best and Jell-O

If you do not agree that Ann Pillsbury's Ice Cream Parfait Pie is the most delicious, unusual, quick and easy pie you ever made, send the weight mark from your sack of Pillsbury's Best Flour and a letter stating why, to Ann Pillsbury, Pillsbury Building, Minneapolis, Minnesota for full refund of the price of your ingredients.

JELL-O

Jell-O is a registered trade-mark of General Foods Corporation

More Parfait Pie Recipes now in every bag of

Pillsbury's BEST

The GRAND NATIONAL Flour

Copyright 1952, Pillsbury Mills, Inc.

Corn Muffins

Sift . . . . . **1½ cups sifted flour**
2 teaspoons baking powder
¾ teaspoon salt
2 tablespoons sugar
Combine **1 egg,** slightly beaten
½ cup milk
1½ cups cut, cooked corn
2 tablespoons melted shortening
Add to flour and mix until moist.
Fill 12 greased muffin cups ½ full.
Bake at 425° (hot) for 25 minutes.
—Marjorie Mothersell, Washington

Corn Fritters With Bacon

Makes 12 fritters

Beat . . . . . **2 eggs**
Stir in . . . . **½ cup milk**
Sift . . . . . **1 cup sifted flour**
1 teaspoon baking powder
1 teaspoon salt
Stir dry ingredients into egg mixture.
Beat in . . . **1 teaspoon melted shortening**
Add . . . . . **1 cup cut, cooked corn**
Drop by tablespoons into deep hot fat.
Fry until brown; serve with **bacon.**

Corn-stuffed Tomatoes

Makes 6 servings

Cut thin slice from tops of
6 tomatoes
Scoop out pulp.
Cut into ½-inch pieces
2 slices bacon
Fry until crisp.
Add . . . . . **2 tablespoons minced onion**
1 tablespoon chopped green pepper
Cook until onion is golden.
Combine **½ cup diced celery**
1½ cups cut, cooked corn
1 egg, beaten
1 cup soft bread crumbs
½ teaspoon salt
⅛ teaspoon pepper
Add bacon mixture to corn mixture.
Stuff into tomato cases.
Place tomatoes in 10x6x1½-inch pan.
Bake at 350° (moderate) for 25 minutes.
Arrange on top of each tomato:
1 strip American cheese
1 strip green pepper
Return to oven until cheese melts.
—Mrs. Stanley Waugh, Ohio

Refrigerator desserts

Black Magic Dessert

Makes 8 servings

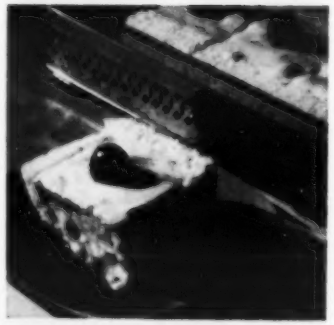
Melt in double boiler:
1 6-ounce package semi-sweet chocolate pieces
Add . . . . . **2 teaspoons water**
1 teaspoon sugar
Stir in gradually:
4 egg yolks, well beaten
Beat well; let cool to room temperature.
Beat . . . . . **4 egg whites**
Add ¼ of the beaten egg whites to the chocolate mixture; blend.
Fold in remaining beaten egg whites.
Whip . . . . **1 cup heavy cream**
Fold into chocolate mixture.
Tear into bite-size pieces:
1 10-inch angel-food loaf cake
Grease 9½x5¼x2¾-inch loaf pan.
Fill loaf pan by alternating layers of cake pieces with chocolate.
Top with layer of chocolate; chill 24 hours.
—Mrs. Lionel LaPlante, Minnesota

Photographs: Stanley

Peppermint Sundae Molds

Makes 7 servings

Prepare according to directions on package:
1 package vanilla pudding mix
Soften . . . . **1 tablespoon (1 envelope) unflavored gelatine** in
⅓ cup cold water
Add to hot pudding; chill till partly set.
Whip . . . . **½ cup heavy cream**
Fold into pudding mixture:
whipped cream
½ teaspoon vanilla
Pour into a 1½-quart mold or 7 individual molds.
Chill in refrigerator until firm; unmold.
Top each serving with **whipped cream** and **crushed peppermint-stick candy.**
—Mrs. A. D. Trochinski, Minnesota



Log Cabin Roll

Makes 12 servings

Crush . . . **1 pound graham crackers,** reserving 3
Combine **crushed graham crackers**
1 7¼-ounce package pitted dates, chopped
½ pound (32) marshmallows, cut in pieces
½ cup chopped walnuts
1 cup heavy cream, whipped
Form mixture in roll.
Crush . . . **3 graham crackers**
Apply to roll; wrap in waxed paper; chill.

—Mrs. Arthur E. Johnson, Minnesota

Pineapple Delight

Makes 8 servings

Drain . . . **No. 1 picnic can (1¼ cups) crushed pineapple**
Combine pineapple juice with boiling water to make **3 cups**
Dissolve in hot liquid
2 packages pineapple gelatine
Add . . . . . **½ cup sugar**
Chill until mixture thickens; whip.
Fold in . . **crushed pineapple**
1 quart vanilla ice cream
Blend well.
Line sides of an 11½x7⅜x1½-inch cake pan with slices of
1 10-inch angel-food cake
Pour ice-cream mixture into pan; chill.

—Mrs. John L. Veldheer, Michigan

Coconut Surprise Mousse

Soften . . . **1 tablespoon (1 envelope) unflavored gelatine** in
¼ cup milk
Add . . . . . **¾ cup milk**
⅔ cup sugar
¼ teaspoon salt
Heat until gelatine is dissolved, stirring.
Chill until slightly thick.
Whip . . . . **2 cups heavy cream**
Fold into chilled gelatine mixture:
whipped cream
2 teaspoons vanilla
Freeze in refrigerator tray until firm.
Brown 1 cup shredded coconut
Break frozen mixture into chunks.
Beat with electric mixer or rotary beater.
Fold in coconut; return to tray.

—Mrs. Ruth Flint, Nebraska

Corn off the cob

For variety in your corn diet, cut it from the cob, prepare it one of these tasty ways

Fried Sweet Corn

Makes 4 servings

Fry until crisp
2 slices bacon
Remove from skillet.
Combine in skillet:
2 cups cut, uncooked corn
⅔ cup (1) chopped green pepper
½ teaspoon salt
⅛ teaspoon pepper
2 tablespoons water
Cover.
Cook for 5 minutes.
Remove cover and continue cooking slowly for 10 minutes, stirring often.
Return bacon to skillet; serve.

—Mrs. Alvin Johnson, Minnesota

Scalloped Corn

Makes 4 servings

Melt . . . . **2 tablespoons butter**
Add . . . . **2 tablespoons flour;** blend
Add . . . . **1 cup milk**
Heat to boiling, stirring constantly.
Cook for 2 minutes longer.
Add . . . . **2 cups cut, uncooked corn**
1 teaspoon salt
1 teaspoon sugar
few grains pepper
½ cup diced American cheese
Beat . . . . **2 eggs**
Fold eggs into corn mixture.
Grease bottom and sides of an 8x1½-inch round cake pan.
Pour batter into cake pan.
Bake at 350° (moderate) for 45 minutes.

—Miss Maurine Junker, Nebraska

All the shelves roll out-all the way!

Only the Cycla-matic Frigidaire puts all the food at your finger tips

YES, EVERY SHELF in this great new food freezer-refrigerator rolls out *all the way* on satin-smooth nylon rollers. No fumbling with backshelf foods. Roomy Pull-out Hydrators, too – sliding utility shelf – even storage space on the door! And a new kind of safety, too – with wonderful Levelcold. It won't see-saw up and down, even in hottest weather!

A true Food Freezer where FOODS NEVER THAW!

Completely separate—completely insulated – where frozen foods can't thaw. The amazing Cycla-matic system, powered by the Meter-Miser, keeps all frozen foods in tip-top shape for months. And, no defrosting heating devices to melt ice cream, thaw out or "mush" frozen foods!

A new kind of refrigerator with AUTOMATIC DEFROSTING!

Cycla-matic Defrosting automatically gets rid of both manual defrosting and dripping walls. The exclusive Refrig-o-plate attracts excessive moisture. *Then, as the filmiest veil of frost appears, Cycla-matic Defrosting gets rid of it – just like that.* No clocks, counters or heaters. Positive Cold Control, too. For cold is always rigidly regulated – in the Cold-Wall chilling coils, in the separate food freezer, and in the Refrig-o-plate itself.

It takes just seven minutes to hear the whole wonderful story. See your nearest Frigidaire Dealer. Look for his name in the Yellow Pages of the phone book, or write Frigidaire Division of General Motors, Dayton 1, Ohio. In Canada, Leaside (Toronto 17), Ontario.

Frigidaire reserves the right to change specifications, or discontinue models, without notice

New Cycla-matic FRIGIDAIRE

Food Freezer-Refrigerator Combined

Frigidaire families live better because Frigidaire appliances are better

GLOBE IS THE "Best" MILKER OF THEM ALL

SAYS LEADING DAIRYMAN

"I have used all kinds of milkers although I find GLOBE is far found the GLOBE [illegible] the best of all. Globe is cheapest to operate and easiest to keep clean."
Franklin J. Clausen
Dairyman for St. Francis School
Eddington, Pa.

EASY TO USE

MOTOR, PULSATOR and PUMP built into a compact power head that [illegible] on the pail. It's ALL there—a complete, self-contained, convenient UNIT . . . all ready to plug in . . . ALL READY TO START MILKING. No pipelines or expensive INSTALLATIONS.

EASY TO CLEAN

No seams, no corners, no cracks to collect dirt or bacteria. One-piece teat cups. GLOBE Milker claw is made of costly scarce Dori-Metal and forged in One Piece with Stainless Steel Valve. It's the "straight thru" claw—no blind, hard to clean ends—no crevices to dig out.

USERS PROVE GLOBE BEST

"Our Globe milks fast and is very easy to operate. As for cleaning, nothing could be easier—Globe cleans itself."
L. H.—Earlville, Iowa

"We are very much pleased with our Globe Milker. You folks are such wonderful people to deal with. We [illegible] GLOBE to everybody."
C. E.—Silverton, Oregon

POSITIVE PULSATION 1-2-3-4 RHYTHM

Only Globe gives that natural 1-2-3-4 milking rhythm and positive pulsation that never varies. Globe gives a gentle milking action to teat 1, moves quickly on to 2-3-4 and back to 1 in a steady never varying rotation until the cow is milked out.

PRICED TO FIT YOUR POCKETBOOK

You'll be amazed at the famous, precision built GLOBE Milker low prices. [illegible] Better Milking and Increased Income, learn the facts of GLOBE'S 12 Superior Features. Write today, letter or postcard, for Globe pamphlets "Why Farmers Should Milk Cows" and "The Experience of Thousands of Globe Users." You can't afford to be without a Globe Milker.

GLOBE MILKER CO.
East 1st and Court — Des Moines, Iowa

Double doors on hallway closet make storage easy to get to without blocking hall with one wide door. Each door is 2 feet wide

Convenient storage was provided in all the closets. This handy shoe rack keeps shoes out of the way but within easy reach

ideas saved money. For instance, the office has exposed hand-hewn oak beams in the ceiling. These cost $6," Bill said.

The office is the one room that Bill really wanted in the remodeled home. This is the room he can call his own. All his records are kept here—field records, records for 45 head of steers and 75 head of Guernseys. The office is located just off the front-door entrance to the house. This means Bill, or any of his men, can get to the office without parading through the rest of the house.

The office walls are paneled with knotty pine. This may sound extravagant, but it isn't. Even if the first cost is high, the job of refinishing is a thing of the past. The paneling looks good and is easy to keep clean. This room, constantly exposed to men in work clothes, would soon be dirty if papered or painted.

In the original remodeling plans, there was no living space above the office—just a peaked roof. The architect told Bill that for just the cost of building a dormer he could have an extra bedroom on the second floor. The dormer was built, and now the second floor has a master bedroom, guest room, and the room over the office for 6-year-old Clark.

The architect proved helpful in saving waste space and including plenty of closets, cabinets, and other storage spaces. One closet in the hall between the living room and office was a problem. It was a

[*Turn to page 58*

Dairying is Bill's main interest. Forty head in milk production give him about 27,000 pounds of Grade A milk every month

Feeding beef is another source of income on the Vilter farm. About 45 head are fed out twice a year, then shipped to Chicago

Here's how to make richer pastures with the FORD TRACTOR

Ford TRACTOR

(PRICED TO SAVE YOU $50 TO $500)*

Make Pastures Grow Faster with Dearborn Lime and Fertilizer Spreader. Has strong ½-ton capacity hopper of heavy gauge steel; split disc agitator for positive feed; full floating scatter boards for even feeding; easy feed-rate regulation. Eight-foot spreading width.

Renovate "Root-Bound" Sod with Dearborn Field Cultivator—cultivate alfalfa or summer fallow—chisel dry ground to admit moisture—control field and pasture weeds with it—do stubble-mulch tillage to fight wind or water erosion. Attachable to the Ford Tractor in a minute or less!

Changing run-down acres into productive, profitable pasture is no trick at all when you own a Ford Tractor and the Dearborn Equipment engineered to work with it. And, then, protected by well-established sod, your soil can resist erosion and gain in stock carrying capacity, year by year.

Whatever needs to be done—like chiseling to admit moisture, sub-soiling for drainage, fertilizing, controlling weeds and brush—can be done the easy way with this great tractor and implement combination. It gives you all the advantages of built-in hydraulic control, of easy handling and economical power. It's easy, too, to do other pasture improvement jobs—such as digging a stock pond, building fences, filling gullies, throwing up terraces.

About all *you* do is steer and occasionally raise or lower implements by finger-touch hydraulic control.

Richer pastures are but one *plus* benefit of the Ford Tractor. Naturally, it has similar outstanding advantages for other types of farming. All this at a price *that's from $50 to $500 less than other leading 2-plow tractors.** Visit your nearby Ford Tractor dealer soon and see proof of all this!

What the Name Ford on a Tractor Means to You!

- LOW FIRST COST
- LOW OPERATING COST
- GOOD SERVICE EVERYWHERE
- PARTS ALWAYS AVAILABLE
- MODERN DESIGN AND ENGINEERING
- QUALITY CLEAR THROUGH
- TOP VALUE AT TRADE-IN TIME

DEARBORN MOTORS CORPORATION • Birmingham, Michigan

National Marketing Organization for the Ford Tractor and Dearborn Farm Equipment

PROOF-METER • ONLY FORD TRACTOR HAS IT

*Comparison of suggested list prices of the standard Ford Tractor and other leading standard 2-plow tractors priced with hydraulic lift.

Dearborn FARM EQUIPMENT

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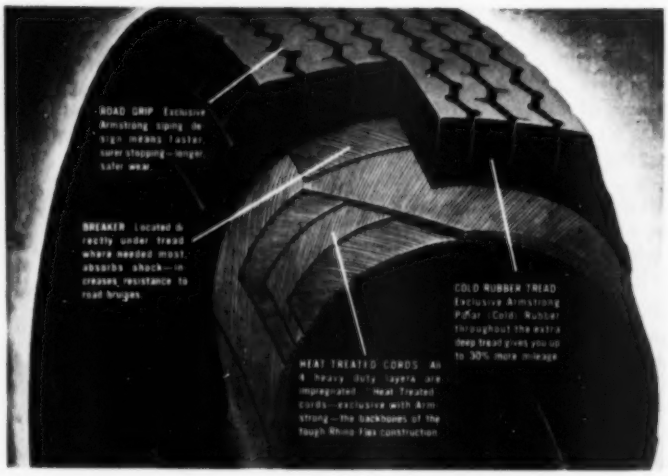
ARMSTRONG Rhino-Flex TIRES

the only leading tires that give you this extra protection!



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Bobby Thomson's $10,000
Armstrong Tires Baseball Contest

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ARMSTRONG RUBBER COMPANY
West Haven 16, Conn.; Norwalk, Conn.; Natchez, Miss.; Des Moines, Iowa; 601 Second Street, San Francisco, Calif. *Export:* 20 E. 50th St., New York, 22.

100 years old

From page 56

wide closet. Instead of the usual 3-foot door, which would make one end of the closet hard to get to, two doors, each 2 feet wide, were hung. Now the entire closet space is easily reached.

There was another reason for the narrow double doors, too. If one standard door was used, it would block the hallway every time it was opened. With two half-doors, the hallway is never blocked.

The new fireplace in the living room was built into the corner because of lack of wall space. Also, this location adjoined the existing chimney. However, the corner of the fireplace cut into one corner of the dining room. To balance this, the Vilters put floor-to-ceiling corner cabinets in the other corners.

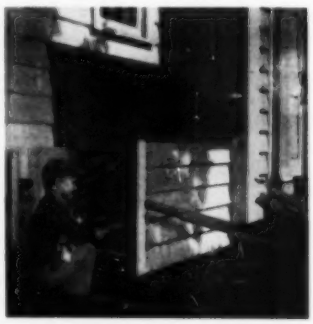
The original remodeling job included a workroom. But it was only about 8x10 feet. For its size, it was very usable. A closet provided room for work clothes. But no sooner was the remodeling job completed than the Vilters became aware that the workroom was too small. Bill and Eleanor suffered with it for seven years.

Then came the day of the "big wind." The wind was screaming across the fields and funneling through the breezeway between the garage and back door. As Bill was trying to unlock the door, hold on to his hat, screen door, and Clark, he decided the breezeway would have to go.

So the breezeway was closed in, and the Vilters had their enlarged workroom. Now, there is room for a washing machine and dryer. And plenty of room for a big worktable. One workroom door opens onto the driveway. The other door opens onto a courtyard where Mrs. Vilter has installed a clothesline for airing clothing.

When the new workroom was added, the partition between the two clothes closets at the house end of the room was shifted. A small washroom was built into this space. These facilities save a lot of traffic through the house.

Now that the remodeling is completed, the Vilters feel they have a comfortable, modern home. They're proud of the fact that their home has been a landmark in the community for 100 years. Remodeling has made it good for another 100.



Handy woodbox is filled by Clark. The woodbox is easily reached from the inside of house through a small door in wall. END

See one of these stores for home planning help

Get FREE help in planning your home decorating, building, and remodeling in any of these stores cooperating with the *Successful Farming* Home Planning Service:

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PERCALE
SHEETS AND PILLOW CASES

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Pequots are now packed in the new, sanitary, cellophane package—look for them at your favorite store.

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AT THE PRICE YOU WANT TO PAY

PEQUOT PLUS-SERVICE—144 threads to the inch, our famous, best quality muslin. Woven, *double-tape* selvages. The best buy for long wear and *true* economy. In white and six colors.

SALEM—130 threads to the inch. Our lightweight muslin, featuring excellent quality and popular price. White, four glowing colors.

PEQUOT MEDIUM PERCALE—180 threads to the inch—our low cost, luxury sheet, in white and six pastel colors.

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2-WAY PROTECTION against MASTITIS!

with this double-duty antibiotic

AUREOMYCIN

the drug of choice for Mastitis

1

When mastitis strikes, infuse a tube of AUREOMYCIN Crystalline Ointment Lederle into the infected quarter. It's fast-acting, long-acting highly effective!

2

Before mastitis strikes, treat cuts and wounds of teats or udder and udder injuries with this same antibiotic, by local application and infusion, to guard against mastitis.

Cut down milk losses! Keep profits up! Treat promptly when mastitis or udder injuries show up! Let this *two-way* treatment with AUREOMYCIN Crystalline OINTMENT *Lederle* give you the same double protection against mastitis that it is providing for thousands of other dairymen!

AUREOMYCIN is a more broadly effective antibiotic than penicillin. Incorporated in a special ointment base, it remains active in the udder for more than 48 hours following a single infusion. AUREOMYCIN OINTMENT for Udder Infusion is a relatively non-irritating, bland and protective ointment. It is available in a convenient, easy-to-use, infusion-tip tube.

In cases of acute septic mastitis, in addition to udder infusion, the injectable form of SULMET* Sodium Sulfamethazine** should be used. Subsequent treatment may be conducted with SULMET Sulfamethazine OBLETS*.

AUREOMYCIN Crystalline INTRAVENOUS** Veterinary may be used in the treatment of acute septicemia as a highly effective agent against a broad range of bacteria.

For maximum efficiency in the use of aureomycin, as well as best management practices and disease-control procedures for avoidance of reinfection, consult your veterinarian.

*Reg. U. S. Pat. Off. **To be used on the advice of a veterinarian.

Animal Industry Section

LEDERLE LABORATORIES DIVISION

AMERICAN Cyanamid COMPANY

30 Rockefeller Plaza New York 20, N. Y.

Hog-feeding problem

From page 33

more rapid gains in pigs, and reduced death losses. It also saved an average of 13 pounds of corn for each pound of supplement fed.

Does it pay to creep-feed pigs when sows and pigs are on pasture?

It depends upon the kind of rations the sows and pigs get on pasture, and the way they are fed. Here are the conclusions based on all of the creep-feeding work at the Illinois station:

When sows and litters are full-fed corn by hand and self-fed minerals, the average daily gain of creep-fed pigs is much more rapid than that of pigs not creep-fed. Under these conditions, the sows and creep-fed pigs will put on 100 pounds of gain with 20 percent less feed.

If sows and litters are self-fed an adequate ration of corn, supplement, and minerals, there is less advantage for creep feeding.

Studies show advantages for creep feeding, however, when large numbers of sows and litters run together on pasture, regardless of the kind of ration fed or method of feeding.

Feed consumption from a creep is greater, and gains faster, when palatable feeds are offered free-choice rather than as a complete, mixed feed. A good free-choice creep ration can be made up of shelled corn, broken oats kernels, and a protein supplement.

How much protein does a pig need in its ration from weaning to marketing?

Results from past experiments at the Illinois station resulted in the following crude-protein recommendations for pigs fed in dry lot and on pasture: From weaning to 75 pounds, 20-22 percent in dry lot, or 16-17 percent on pasture; from 75 to 125 pounds, 16-18 percent in dry lot, or 14-15 percent on pasture; from 125 to 200 pounds, 14-15 percent in dry lot, or 12 percent on pasture; and over 200 pounds, 12-13 percent in dry lot, or 9-10 percent on pasture.

Research is under way to determine whether these requirements for protein may be reduced when the rations are adequately fortified with antibiotics, minerals, and all of the known vitamin needs. Indications are that requirements can be lowered.

Can oats replace corn in the ration for fattening hogs?

Ten years of research gives these facts on the place of oats in the ration of growing and fattening hogs:

Ground oats may be fed to the extent of one-fourth to one-third of the grain with little, if any, decrease in the rate of gain.

Including ground oats in the ration, however, slightly increases the total amount of feed required for each pound of gain. And unless ground oats are as

cheap as corn per pound, there is no profit in making the substitution in the hog ration.

Ground oats are worth from 28 to 29 percent more than an equal weight of whole oats. A fine or medium grind is better than a coarse grind.

For young pigs, hulled oats are worth more, pound for pound, than corn. But hulling losses offset the increased value. Grinding oats for pigs is more profitable than hulling.

How does grass pasture compare with legume pasture for growing and fattening hogs?

Straight alfalfa pasture is much better than straight bromegrass pasture. In one series of tests at Illinois, pigs self-fed to 200 pounds required 5½ percent more concentrates per 100 pounds of gain on bromegrass than on alfalfa. The pigs on alfalfa ate 33 percent less protein supplement and 13 percent less minerals per pound of gain. And they reached the final market weight a week earlier.

A pasture mixture of bromegrass and alfalfa is fully as good as straight alfalfa, however, when pigs are self-fed.

What is a good protein supplement for hogs on pasture?

Results from numerous feeding trials show that there are a number of supplemental protein mixtures which are satisfactory when self-fed free-choice on good pasture with shelled corn and minerals. Here are seven combinations:

One part soybean meal plus 2 parts ground oats.

Two parts soybean meal plus 1 part alfalfa meal.

Equal parts soybean meal and tankage.

Equal parts soybean meal and meat and bone scraps.

Equal parts soybean meal and dried corn distillers' solubles.

Equal parts of ordinary soybean meal, meat and bone scraps, and dried corn distillers' solubles.

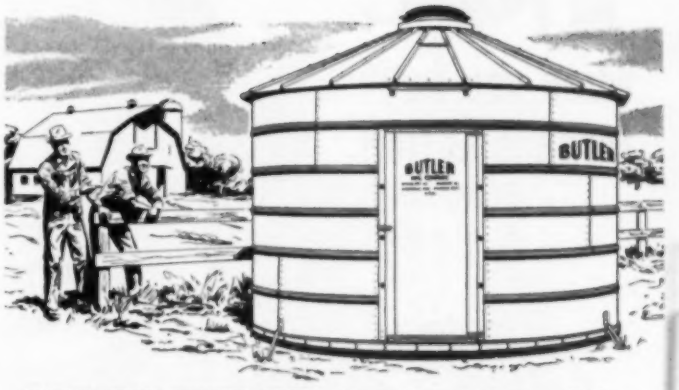
Equal parts meat and bone scraps and dried corn distillers' solubles.

Minerals and salt should be fed free-choice to the pigs or incorporated into the supplement in correct amounts. This is particularly important when you are feeding all-plant pig supplements.

[*Turn to page 107*

SUCCESSFUL FARMING

Your Profits Grow When Your Grain Is Safe in a Butler Grain Bin!



WATCH YOUR PROFITS GROW when you store your grain in safe, sturdy Butler Grain Bins. Throughout the years, farmers who have been able to hold their grain three, five or seven months beyond harvest time usually have been able to market their grain at a much higher cash price. Adequate on-the-farm storage facilities makes the difference. Take a look at the chart below.

THESE 10 YEAR AVERAGES TELL THE PROFIT STORY

Average Cash Prices for No. 2 Dark and Hard Wheat, Kansas City Grain Market
(Source: "Grain Market Review")

Years	June 15	Sept. 15	Nov. 15	Jan. 15
1942-43	1.15⅝	1.22	1.25⅝	1.38⅝
1943-44	1.38⅞	1.48¾	1.56½	1.66
1944-45	1.60½	1.59	1.65	1.67
1945-46	1.75¼	1.70	1.73¼	1.75¼
1946-47	1.94	2.02	2.16½	2.14½
1947-48	2.29⅛	2.94	3.17	3.28⅝
1948-49	2.30⅝	2.23½	2.31	2.26⅝
1949-50	2.16½	2.25	2.25¼	2.24
1950-51	2.17¾	2.26⅛	2.27⅝	2.38⅛
1951-52	2.41	2.46	2.60¼	2.55¼

BANK YOUR GRAIN IN A BUTLER GRAIN BIN AND WATCH YOUR PROFITS GROW

- Fire-safe, weathertight, rodent-proof
- Fast, easy to erect
- Low-cost erection
- Rugged, long-life construction
- Easy to fill, easy to empty
- 500, 1000, 1330, 2200 and 3276 bu. capacities
- Proved in use for more than 40 years
- More farmers are using Butler Grain Bins than any other make

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a glorious new shampoo Free* when you buy Jergens Lotion

A shampoo so different you have to try it to believe it! That's why Jergens is offering you this chance to test Jergens Liquid Cream Shampoo *without cost*. See how Jergens Cream Shampoo's great billows of lather brighten the natural color—add new lustre—and leave your hair soft and *really* easy to manage.

Hurry while the offer lasts! Buy the big 50¢ size bottle of fragrant, soothing pure white Jergens Lotion—enough to keep your hands lovely for *months*—and get FREE a generous 25¢ bottle of Jergens Liquid Cream Shampoo—a 75¢ value for only 49¢. Discover how lovely your hair can be. Get this two-way beauty bargain at your cosmetic counter *today*. Offer is for a limited time only!

(All prices plus tax)

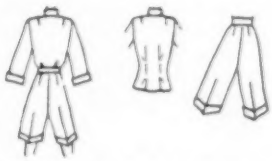
* Use Jergens Lotion for two weeks. If not delighted with it, mail it back to The Andrew Jergens Company, Cincinnati 14, Ohio, and your full purchase price will be refunded. Keep the shampoo as your free gift.

For fun in the sun

From page 38

Advance Patterns 5785 and **5508** have been styled for many fabrics. Shorts, pedal pushers, and playsuit and skirt have been illustrated in denim. Blouses are shown in tissue gingham and piqué. In place of denim, corded cotton, gabardine, lightweight corduroy, heavy cotton, seersucker, or linen could be used.

5785. Playsuit alone in size 14 requires $2\frac{1}{4}$ yards of 35-inch material without nap. The skirt of a contrasting fabric needs $3\frac{1}{2}$ yards of 35-inch material without nap for size 14. The playsuit and wrap-around skirt of one material require $5\frac{5}{8}$ yards of 35-inch material in size 14. In sizes 12 to 20, the pattern costs 35 cents.



5508. The shorts in size 14 require $1\frac{5}{8}$ yards of 35-inch material without nap. Sleeveless blouse shown with the shorts needs $1\frac{1}{2}$ yards of 35-inch material without nap for the same size.

Pedal-pusher pattern in a size 14 needs $1\frac{7}{8}$ yards of 35-inch fabric without nap. The blouse, with three-quarter-length sleeves, requires $2\frac{1}{8}$ yards of 35- or 39-inch material without nap.

Pattern 5508 includes shorts, sleeveless blouse, pedal pushers, and three-quarter-sleeved blouse. It is available in sizes 12 to 20 and costs 25 cents.

These Advance Patterns are available from local dealers or you may purchase them direct from Successful Farming *by simply filling in the handy coupon below.*

To: Successful Farming,
3607 Meredith Building,
Des Moines 3, Iowa.

We have enclosed cash or money order in the amount of $ .....
for the following patterns:

☐ **5785** **Size** .....
☐ **5508** **Size** .....

Name .....

Address .....

City ..... **State** .....

Laughing at Life

During Mark Twain's days as a newspaperman, he was editor of a small Missouri newspaper. One day he got a letter from a subscriber, stating that he had found a spider in his paper, and asking if this was an omen of good or bad luck.

Twain wrote: "Finding a spider in your paper is neither good luck nor bad. The spider was merely looking over our paper to see which merchant was not advertising so he could go to that store, spin his web across the door, and lead a life of undisturbed peace ever afterward."

A thug stepped from behind a tree and stuck a gun in the ribs of his victim. "Hand over your money!" he barked, "or I'll blow your brains out!" The citizen promptly replied: "Blow away, brother. I can live in this town without brains, but I gotta have money!"

• • • • • • • • • • • • • • • • • •

The Error of Our Ways

(Culls From the News Columns)

Defying Natural Law

Peel onions and cool in boiling salted water until tender.—*From a recipe, Dallas (Texas) Morning News.*

Monkey Business

Only a few apes were heard in support of the move advanced by the Republican representative of New York.—*New York (New York) World-Telegram.*

Old Nick, Himself

Wanted: Cow by gentleman with crooked horns.—*Atlanta (Georgia) Journal.*

SUCCESSFUL FARMING

"Did I pass?"

When you buy your Food Freezer buy G-E DEPENDABILITY–

Be sure to compare the new General Electric Freezer in every way with any other you ever saw!

Trim and specifications subject to change without notice.

New engineering advancements make this General Electric Freezer more *economical* and more *dependable* than ever before.

In addition, this new 11-cu-ft G-E Freezer takes so little floor space—only 48 inches in length—yet it holds 389 pounds of frozen foods. It's a real space-maker!

20 per cent quieter than previous, quiet G-E models. G.E. puts nature to work—uses a natural draft instead of fans.

Costs 13 per cent less to operate than former economical models. G-E Freezers are as thrifty as G-E Refrigerators.

Even a small woman can reach into every corner of the G-E Freezer. Only 25 inches deep—yet it holds so much food.

So very dependable

The G-E Freezer has the same dependable refrigerating system as the G-E Refrigerator. *More than 3,500,000 G-E Refrigerators with sealed-in systems have been in use 10 years or longer. This record is unmatched!*

Isn't now the time to buy your G-E Freezer? Many people say that their G-E Freezers save them $120—or more—each year! See your G-E dealer. General Electric Company, Louisville 2, Kentucky.

GENERAL ELECTRIC

Here's how *for home painters*

Easy, quick way to paint screens! To beautify your screens, prevent them from rusting and staining the side of your house below the windows, take a piece of flat wood 3 or 4 inches square. Fasten an old piece of clean carpet to side of block. Nail a small piece of wood to top for handle. Then dip carpet into Devoe Screen Enamel. Scrub over screening. Result: a perfect paint job! No clogging of screen mesh, no mess.

Stuck with a window that sticks? If it's because of hardened paint, run a knife all around edge of frame. Now push up on the center sash. Push near the sides, not in the middle—to avoid breaking it. Once opened, rub the area where sash contacts frame with linseed oil, floor wax or a candle stub. Remember Devoe Trim and Shutter Colors for painting window frames stay bright.

How to keep insects away from FRESH paint! Stir in thoroughly one or two teaspoonfuls of oil of citronella or wintergreen to each gallon of paint. Odor of these oils keeps flies away until paint is dry. For repainting your house, try revolutionary new Devoe Wonder-1-Coat! Gives you 2-coat beauty and protection in just one coat.

A helpful hint for tinting oil-base paint! Don't add a dab of tinting color to a *full* can of paint. It may result in ugly streaks. Instead: pour off a cupful, stir in tinting paint. Add tinted mixture to rest of can, stirring thoroughly. All guesswork is unnecessary with Devoe's 232 Library of Color Cards. On back of each card are easy directions for mixing *exact* color shown on front.

You can get all the painting accessories that you need—and many more helpful tips at the sign of the Devoe Diamond. Why not stop in and see your Devoe Dealer very soon? You'll find his name listed in the Classified section of your Phone Book.

DEVOE PAINT

A back-rubber to stop hornflies

By William M. Rogoff
South Dakota State College

Here is a simple means of hornfly control. While it is probably no more effective than spraying, cattlemen like the cable-type back-rubber for its simple, low-cost operation. It also provides fly control without the necessity of a roundup which disturbs the feeding herd.

A unit can be constructed for $5 or less, and operated for an entire season for another $5. One properly placed back-rubber can serve well over 100 cattle. It is most successful where there are few objects such as low-hanging limbs for the cattle to rub against.

Two 4- or 5-inch posts, solidly set and braced, are placed about 16 feet apart. A slack cable consisting of three strands of barbed wire wound with a fourth strand serves as an excellent core. This is wrapped with burlap sacking which is then tied in place with binder twine. The ends of the cable are attached to rings about 4 feet high on the posts, while the center of the cable hangs to about 18 inches from the ground. The burlap is soaked with a 5-percent solution of DDT in oil by pouring the solution from a pitcher or tin can. It takes about a gallon to soak the cable the first time.

Lasts two weeks

The insecticide is replenished every two to three weeks by pouring onto the cable an additional 2 quarts of the same type of solution.

The Arnold Ranch in Todd County, South Dakota, has been using cable-type back-rubbers for several years. The operators have convinced themselves of their effectiveness and safety. This ranch, one of the largest in South Dakota, has over a score of these units set up in various locations, mostly near windmills. It is standard practice for the man who checks the windmills to carry the insecticidal solution with him in his vehicle.

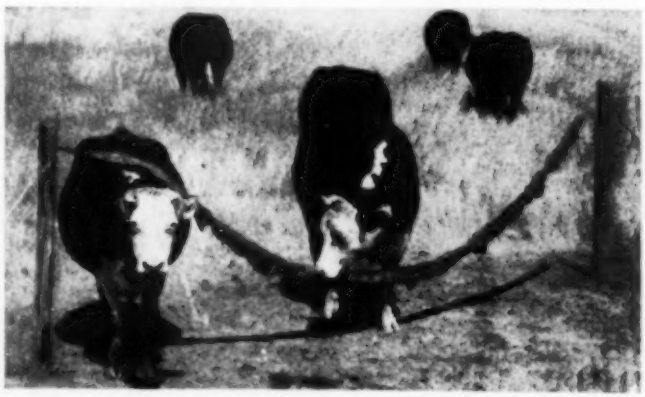
In 1950 and 1951, the South Dakota State Agricultural Experiment Station made over 2,000 counts on individual cattle under range, pasture, and feedlot conditions to see if this method would control hornflies.

Comparison tests

The following table was compiled in 1951 from five herds in Moody County, South Dakota—one herd had access to a back-rubber, another herd was sprayed, and three untreated neighboring herds were selected at random to serve as a check:

Treatment	Date observed	Average number flies per side
Back-rubber	July 27	0.8
(5% DDT)	July 28	0.6
Spray	July 27	0.8
(0.5% DDT)	July 28	0.4
Untreated	July 27	66.0
	July 28	100.0
	July 28	101.2

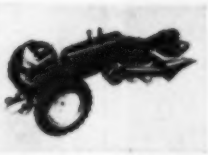
Such a small quantity of the oil solution is deposited on each animal that only about one-eighth the amount of DDT is deposited in the fat of cattle using back-rubbers for an entire season as is deposited in cattle sprayed three times at three-week intervals with a standard DDT suspension. Furthermore, individual examinations disclosed no significant skin irritation.



Trampled earth around this cable-type back-rubber testifies to its heavy use. One such unit set up near water will control hornflies on 100 head of cattle. And $5 worth of DDT in oil will keep it charged all summer, replenishing at two-week intervals. END

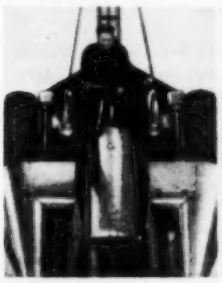
NEW..a Massey-Harris 2-row Mounted Picker

with 4 plus features



1 Less weight on front wheels. *Only* 500 *pounds* of added weight on the front wheels —one-fourth the weight added here by some mounted pickers. You can pull through soft spots, pick corn on wet ground where other heavier, poorly balanced mounted pickers mire down.

2 Attach Easily and Quickly — Built in two sections — front and rear — it is only necessary to drive into the front unit and tighten a few bolts. It is equally easy to back into the rear unit and attach. That's all — a fast, easy job. Detaches just as easily.



3 Clear, straight-ahead view — not even a bar or brace to obstruct your vision! Follow the rows easier, hit each stalk squarely, pick up "down" corn better. You can see the picking rolls, husking rolls, fan, elevator from tractor seat. No dangerous moving parts around you.

4 Works faster, picks cleaner. In actual field tests, the Massey-Harris mounted picker husked over 220 bushels per hour. Husks ears cleaner because ears must travel the full length of the long husking rolls. Air blast removes loose silks and husks. Adjustable spacings between snapping rolls.

Make it a Massey-Harris

NEVER before a mounted picker like this! The first time you look it over, you'll see advantages available in no other mounted picker at *any* price! The first time you see it at work in the field, you'll *know* that here is the mounted picker that gets more corn in the wagon and leaves less on the ground . . . picks cleaner . . . and keeps going even in soft ground.

You'll like the way the floating gathering points follow the lay of the land and nose down under stalks often missed by other pickers. You'll see more stalks channeled up the wide gentle sloping stalk-ways and guided to the snapping rolls by the one lower and two upper gathering chains. You'll see the long husking rolls gently remove husks with less shelling of corn.

You'll like the *capacity* of the entire unit that means faster picking in heavy corn . . . the way the extra wide elevator handles big hybrid ears. And you can fill wagons from end to end without scooping.

The smooth, streamlined design, better driving view, plenty of elbow room for the operator, safety from moving parts and ease of greasing will also catch your eye. The time you save mounting and detaching the Massey-Harris picker will give you more time in the field.

Yet, for all it has, for all it will do, you'll be surprised at the low price of the new Massey-Harris Mounted Picker. It's ruggedly built to last for years, but there's less dead weight, less load on the tractor. So stop in and see this new mounted picker at your Massey-Harris dealer. Have him give you *all* the details. For complete folder, mail the handy coupon.

THE MASSEY-HARRIS COMPANY
Quality Avenue, Dept. G-110, Racine, Wis.
Please send complete literature on the Massey-Harris Mounted Corn Picker.

MAIL THIS COUPON

Name .....

Town ..... R.F.D. .....

County ..... State .....

Is it time for another Declaration of Independence?

The men who wrote the first one struggled to put new ideas into simple words. Humbly, they tried to set down clearly certain rights of man that could be called God-given, and hard-to-say things of a spiritual nature—truth, equality, freedom.

And the words came alive, and the ideas shone clear. The idea that each man is more important than his government; his independence more precious than his security; his spiritual strength more lasting than his armies.

Upon these ideas, a nation grew great.

There are always people who fear such ideas—even today, even in America. These people feel that man cannot be trusted with his destiny. They are working to make government the master—instead of the servant—of the people.

Their distrust of the individual has spread frighteningly in the past few years.

It can be stopped by ideas—the same ideas spelled out in the Declaration of Independence.

It's time for all of us, privately and in public, to declare once again our independence—to speak up for freedom, and against anything that threatens it.

• • • • •

The trend toward more and more government controls is a threat to every business, farm and family. That's why this message is published by America's business-managed, tax-paying ELECTRIC LIGHT AND POWER COMPANIES*.

**Names on request from this magazine*

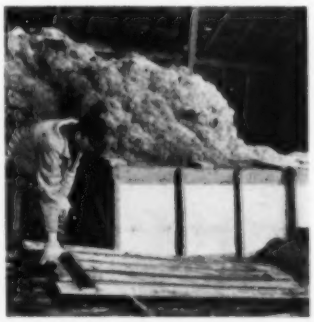
Easier winter feeding

From page 35

this method report they are satisfied with it because it eliminates several handlings, and the machine can be set to use as little twine as possible. They're getting very little spoilage—probably less than if the bales were put in a stack. Users report little trouble getting cattle to clean up the bales. Feeding bales in the field works best in dry or frozen fields. If this feeding method is followed, use it on the last hay cutting or on a late-summer hay crop.

Chopped hay: Cattle eat directly from round stacks (formed by picket fence) at S.C.S. farm, Callaway County, Missouri

Loose hay: Charles Gocken builds stacks on poor spots, feeds in field. Uneaten hay goes for bedding. Push-off stacker is used



Mow-dried hay: Chopped hay is blown into overhead loft by Walter Pfeiffer, Arlington, Nebraska. Manger is below loft

July

Poultry pointers

All-pullet flock checks T.B. An important measure in a program to control and eradicate tuberculosis in domestic birds is an "all-pullet" flock. Dr. D. F. Eveleth, veterinarian of the North Dakota Experiment Station, advises poultrymen to sell all birds after their first year's production. Raise replacement birds on clean ranges, Doctor Eveleth adds, and after the old birds are sold, disinfect the buildings before bringing in the new layers.

If you wish to keep hens for the second year, have a veterinarian test them with avian tuberculin. Sell all reactors to a market where official inspection is made.

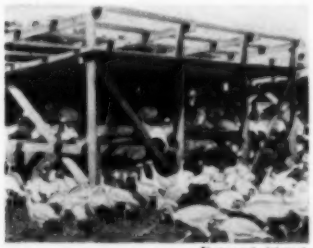
Other points stressed by Doctor Eveleth are: Keep your poultry away from swine. There may be cross infection. Never house old hens and pullets together. Use a good disinfectant, particularly live steam, to clean and disinfect your poultry house and equipment.

Death losses, loss of weight, non-laying, and pale combs all are signs of tuberculosis in birds over 1 year old.

Produce infertile eggs. Fertile eggs deteriorate more rapidly during warm weather than infertile eggs. Cell division will take place in a fertile egg when the temperature is above 68 degrees. Get rid of all male birds not needed for production of hatching eggs. Young males should be kept away from the laying hens.

Sturdy range shelter. This well-constructed 10'x14' turkey range shelter (pictured below) was built by Robert Ward, Henry County, Iowa, to stand repeated moving. The two runners are 4x4s and the braces are 2x6s and 2x4s. Where the load is light, 1x6s and 2x4s are used.

The uprights extend above the corrugated sheet-metal roof to form the supports of the roosts on top. When the birds are nearly full-grown, the roosts have considerable weight to support, and this structure has passed the test.



Photograph, Wattach

NO SERVICE PROBLEMS WHEN IT'S HEATMASTER!

That's W. G. Holtshouse talking. He's a prominent plumbing and heating contractor, 330 N. Sandusky Ave., Bucyrus, Ohio. Here's more of what Mr. Holtshouse says: "When I install a water heater, my reputation's at stake. That's why I recommend C-E HEATMASTER fully automatic water heaters. I know from experience that my customers will be satisfied—not only with plenty of hot water, but with HEATMASTER's economical operation."

Available in all models and sizes, both gas and electric

Electric—Approved and listed by Underwriters' Laboratories, Inc.

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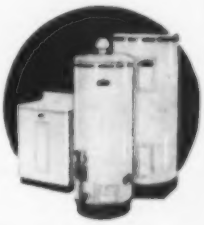
C-E



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AUTOMATIC WATER HEATERS

Water Heater and Soil Pipe Division

COMBUSTION ENGINEERING-SUPERHEATER, INC., P. O. Box 1749, Chattanooga 1, Tenn.

Speed Queen

AMERICA'S WORK CLOTHES WASHER

2 CASH SAVINGS

1 SAVE UP TO $175.00 ON PRICE
2 SAVE UP TO $40.00 A YEAR ON SOAP AND HOT WATER

Yes, you can buy a big, family-size Speed Queen, capable of washing up to 7 loads per hour, for as much as $175 less than top price washers. In addition, you can save up to $40 a year on soap and hot water, depending on what your local electric or gas rate is. Surely these hard cash savings are worth checking before you buy a new washer. See your nearest Speed Queen dealer this week. Or write—

SPEED QUEEN CORPORATION
Ripon, Wisconsin

SPEED QUEEN

Take it outdoors

From page 30

Dessert's easy! All it takes is a strong arm, and presto—homemade ice cream. Serve a large scoop of it with ripe cantaloupe

Caesar Salad

Makes 6 servings

IN THE KITCHEN

Heat in skillet:
- **3 tablespoons salad oil**
- **1 clove garlic,** crushed

Fry in hot oil until brown
- **2 cups white bread,** cut in ½-inch cubes

Drop into boiling water
- **2 eggs**

Turn off heat; let stand 3 minutes.
Remove eggs and cool.
Combine in a jar:
- **½ teaspoon salt**
- **¼ teaspoon pepper**
- **¼ teaspoon dry mustard**
- **7 tablespoons salad oil**
- **⅓ cup lemon juice**
- **2 tablespoons red-wine vinegar**

Rub a wooden salad bowl with:
- **1 cut clove garlic**

Tear into bite-size pieces:
- **1 head lettuce**

AT THE BARBECUE

Break cooled eggs over torn lettuce.
Add . . . . . **¼ pound blue cheese,** crumbled
- **4 anchovy fillets,** chopped

Shake salad-dressing mixture well.
Sprinkle on lettuce; toss thoroughly.
Drop croutons over salad before serving.
Toss enough to mix.

Beef Cakes in Barbecue Sauce

Makes 12 cakes

IN THE KITCHEN

Combine **3 pounds ground beef**
- **½ teaspoon hickory-smoked salt**
- **few grains pepper**

Form into patties, 4 inches across and ¾ inch thick.

You make linens more than white with CLOROX...you make them *sanitary*, too!

Clorox is more, much more, than an extra-gentle bleach . . . it's one of the world's great disinfectants. Used in laundering, Clorox helps protect your family against infectious germs which often survive ordinary washing!

Yes, Clorox-clean cottons and linens are more than snowy-white or color-bright . . . they're sanitary, too . . . for Clorox is the most efficient germ-killer of its kind! Clorox also deodorizes and removes stains. In addition, it's free from caustic—extra gentle on fabrics! So, to conserve linens . . . to protect health . . . use Clorox every washday!

And a CLOROX-clean home helps protect health, too!

Laundering isn't the only way Clorox helps protect your family's health. In routine cleaning of kitchen and bathroom, Clorox removes stains, deodorizes, disinfects. And the Clorox type of disinfection is recommended by public health authorities. Directions on label.

CLOROX
America's Favorite
BLEACH & HOUSEHOLD DISINFECTANT

Copr. 1952, Clorox Chemical Co.

When it's CLOROX-clean... it's SAFER for Family Health!

Heat in skillet
1½ tablespoons salad oil
Add . . . . . **1½ cloves minced garlic**
¾ cup chopped onion
Cook until onion is golden brown.
Add . . . . . **1½ cups tomato juice**
1½ teaspoons dry mustard
1½ tablespoons steak sauce
3 tablespoons cooking sherry
¾ teaspoon salt
few grains pepper

AT THE BARBECUE

Simmer barbecue sauce for 10 minutes.
Add beef patties.
Simmer 20 to 25 minutes longer (until meat is thoroughly cooked), turning once.
Toast . . . . **12 split hamburger buns**
Serve patties in buns with sauce.

Hash-brown Potatoes

Makes 6 servings

IN THE KITCHEN

Mix in a bowl:
9 cups (12 medium) cold, cooked, grated potatoes
1½ teaspoons salt
¼ teaspoon pepper
¾ teaspoon onion salt

AT THE BARBECUE

Heat in a 10-inch skillet
⅓ cup bacon fat
Add half of the grated potatoes.
Press down with a spatula into a cake about 1 inch thick.
Cook until underside is crisp and brown.
Divide into four sections with a spatula.
Loosen the potatoes from the skillet.
Flip each section over.
Brown on the second side.
Repeat process for rest of potatoes.
Serve hot.

Campfire Coffee

AT THE BARBECUE

Bring to a rolling boil
4½ cups cold water
Remove from fire.
Add . . . . . **5 tablespoons coffee,** regular grind
½ eggshell, crumbled
Replace on fire.
Simmer slowly for 8 minutes.
Add . . . . . **¼ cup cold water**
⅛ teaspoon salt
Serve as soon as coffee is clear.

Vanilla Ice Cream

Makes 1 gallon

IN THE KITCHEN

Beat until light
4 eggs
Add gradually, beating until mixture thickens
2½ cups sugar
Add . . . . . **6 cups milk**
4 cups light cream
2 tablespoons vanilla
½ teaspoon salt
Mix thoroughly; pour into freezer.
Pack freezer with a mixture of
8 parts ice to **1 part salt** by weight.

Breeze through your home freeze with VAPOCAN

FULL-TOP OPENING

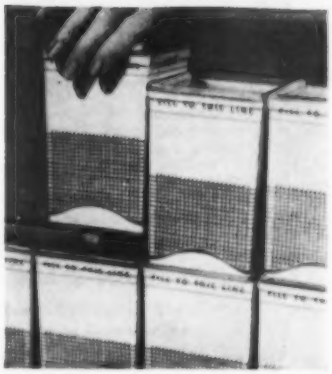
makes filling and emptying a simple task. You need no inner linings or setups with **VAPOCAN.** The generous open top and rigid sides prevent spilling, tipping and waste. **VAPOCAN** comes in the handy pint-and-a-half size.

NEW IMPROVED PLASTIC LID

saves you time, effort and money. No outer wrappings, no messy heat seal. Just press on the permanent plastic lid for a sure, quick seal. Use lids over and over. Lids can be crayon-marked each time for quick identification of **VAPOCAN** contents.

SQUARED TAPERED BODY

saves valuable locker space. Lids are rimmed for firm stacking, too. **VAPOCAN** is designed for berries, cherries, vegetables, fruits, chopped meats, even liquids. At most locker plants, appliance and department stores.



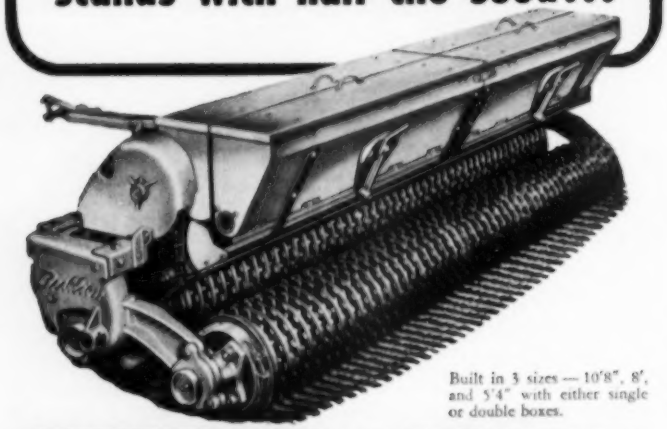
FREE BOOKLET!

ASK YOUR DEALER ABOUT VAPOCAN TODAY

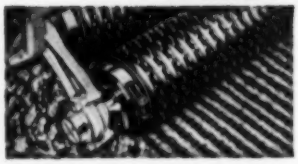
Send *today* for the wonderful new booklet on home freezing.

CONTAINER CORPORATION OF AMERICA, Dept. G
38 South Dearborn Street, Chicago 3, Illinois

See why Brillion Sure-Stand Seeder gives you better grass stands with half the seed...



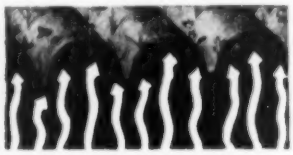
Built in 3 sizes — 10'8", 8', and 5'4" with either single or double boxes.



Works cloddy soil into a fine mulch... In just one trip over the field, the Brillion Sure-Stand Grass Seeder breaks down clods into a fine, smooth, well-worked seed bed; plants the seed; and then gently firms the soil around the seed. Notched pulverizer wheels, with finger-like action, leave the ground stippled to catch and hold moisture.

Meters out the seed accurately... The precision built seed meter saves you many dollars in seed money. You can accurately control the seeding rate even when seeding as little as 2 or 3 pounds of grass, clover or other legume seed per acre. No skips or bunching . . . you get smooth, even distribution of seed . . . smooth, even stands.

Tucks each seed to bed in the top half-inch of soil... Moist soil is gently packed around each seed. No seed falls into barren air pockets . . . or is smothered by deep planting . . . or covered by clods where it can't grow. That is why other seeding methods *waste* half the seed . . . seed you save with a Brillion Sure-Stand!



Brings up "Rain from Below" for sure germination... Farmers report good stands even in dry years with the Brillion Sure-Stand Seeder when other seeding methods fail. This is because the Brillion crushes out air pockets and clods . . . permits sub-surface moisture to creep upward to the seed . . . helps each seed to sprout and grow.

Brillion

SURE-STAND GRASS SEEDER

Pays for itself in two days' use with the seed it saves!

BRILLION IRON WORKS, INC., Dept. SG-1-7, Brillion, Wisconsin

Please send me complete information on the Brillion Sure-Stand Seeder as well as the items checked below. I seed about..... acres for hay and pasture each year.

☐ **Brillion Sure-Stand Grain Drills**

☐ **Brillion Pulvi-Mulchers**

☐ **Brillion Pulverizers**

Name.....

Town..... RFD.....

County..... State.....

Irrigation

From page 40

right type, do I have the cash to finance the needed irrigation equipment?"

1. What will the returns be?

There is a rapidly growing store of information at most of our agricultural colleges on crop responses to irrigation. There isn't sufficient room here to give these results, but you can obtain them by writing the agricultural experiment station information office in your state and neighboring states.

When you are figuring these returns, here are some general questions with which you should be concerned: What is the cash value of the crop you want to irrigate? A 20-bushels-per-acre increase in a $3-per-bushel crop will pay for a lot more irrigation than if that crop were worth $1 per bushel.

What is the water requirement of the crop? The higher the requirement, the more you need irrigation. Does the crop mature sufficiently before the drouthy months? A plant making its most rapid growth during July or August, such as corn, responds best to irrigation. What is the probability of drouth for the next 10 years—not only the crop-destroying kind but the little two-week variety you get every year? The weather bureau can help you with these figures. Are you already getting top yields? Irrigation is most successful where soil management, insect control, and other practices are assuring high yields.

2. Can you irrigate?

Qualified engineers are available from nearly all of the irrigation-equipment companies; but before you call them in, go over this list of questions.

Is a dependable pond or stream nearby? These are your least expensive sources of irrigation water. Make sure they won't be dry when you will need them most. You may be able to build a pond. Pond capacity must provide 30,000 gallons for each acre-inch of water applied.

Could a well be drilled? Where surface water is unavailable or poorly located, your best bet may be a well. In some areas, water is almost at posthole depth. Other regions lack underground water in quantity at reasonable depths. Local well drillers and state water surveys are your best help here.

What about water rights? State laws differ with regard to use of water from streams and even wells. At present, most eastern states do not regulate irrigation.

Can your soil be irrigated? The most ideal soil will absorb water at the rate you wish to irrigate (usually 3/10 to ¾ inch per hour) and will hold quantities of water for the future use of the crop. Labor is increased on sandy soils which must be watered more often. Heavy clay soils seldom absorb water rapidly enough for successful irrigation.

What type of irrigation system will you need?

Flooding or open-ditch irrigation is

customary where the land is nearly level or can be leveled. New methods of flooding and ditching on the contour are being developed.

Gated pipe, both portable and underground, is a variation of ditch irrigation and is being used where slopes are gentle and where leveling costs would be prohibitive. Extensive leveling is not possible where topsoils are so shallow that large areas of subsoils would be exposed.

Sprinklers with easily moved aluminum piping have mainly been responsible for bringing irrigation to the rolling land of the humid region. They can be adapted to nearly any topography. Another advantage—they make most efficient use of limited water.

What will your initial investment be? The acreage you wish to irrigate, the availability of water, and the type of system selected all influence the investment. The larger the area you irrigate, the greater will be the cost. Forty to 80 acres would be about average. Costs per acre are slightly reduced where larger acreages are irrigated. Equipment will be less expensive for a square farm than for one irregularly shaped.

Pumping longer distances from a stream may have to be weighed against the cost of drilling a well or building a pond. A properly engineered pond will usually cost from $500 upward. Wells where water is near the surface can be drilled cheaply and require less expensive pumps. If you have to go down 200 feet, your well, turbine pump, and motor could come to $5,000.

The type of irrigation system will affect the cost. A ditch system with a stream easily accessible might be set up for 40 to 60 acres for less than $2,000. A sprinkler system might be operated by a tractor-mounted pump with costs held below $2,000.

Figure on a minimum of $1,000 to $2,000 for pipe if you use sprinkler or gated pipe. You can start with less pipe if you are willing to move it more often.

What will your operating expenses be? Fuel or power costs are a big item here. Some farmers who are fortunate enough to obtain natural gas operate 1,000-gallons-per-minute pumps for under 20 cents per hour, while a person using gasoline could have fuel costs of $1 per hour. Bigger pumps result in lower operating costs per acre-inch of water delivered.

Labor costs must also be included in running expenses. An open-ditch system may take almost constant attention. One study of sprinkler systems disclosed an average of .9 hour of labor per acre per irrigation.

Annual repair costs usually run less than 5 percent of the purchase price but increase with the age of the system.

Depreciation and interest should also be included. Ten years is a commonly used depreciation rate.

If you think you want to irrigate, your next move is to call in an engineer from an irrigation company. Irrigation can be a profitable tool on your farm, but do some figuring before you buy. **END**

Don't get stuck with a rust-clogged radiator!

Drain it out, then clean it out.

To avoid overheating . . . use

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Summer is the season when your cooling system must work hardest to prevent engine overheating. That's why it's so important now to be sure your cooling system is thoroughly clean. **Du Pont Cleanser** safely and easily removes the rust that causes trouble. Use it in your car as well as in your tractors and trucks. Ask for Du Pont Cleanser at your service station today . . . and inquire about the complete Du Pont "Drain Out" service.

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It's a cinch to keep new rust from forming in your radiator with Du Pont Anti-Rust. This new liquid rust inhibitor not only retards corrosion but neutralizes acids, lubricates the water pump and helps eliminate squeaks. It won't clog or cause sludge . . . is harmless to hose and metal parts.

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Makes Frozen Desserts 8 SERVINGS

AT GROCERS

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Six Delicious Flavors!

Freeze now

From page 43

When freezing fruits: Don't let fruits stand in water; they lose food value and flavor and become water-soaked. Fix only enough for a few containers at a time.

To make a syrup pack: Dissolve sugar in cold or hot water. Syrup must be cold before using. When packing fruit in containers, be sure the syrup covers the fruit. Don't allow pieces to float on top. To keep the fruit under the syrup, put a small piece of crumpled parchment paper on top and press food down into syrup before closing and sealing the container.

For a sugar pack: Cut fruit into bowl. Sprinkle the sugar over the fruit. To mix, use a large spoon or pancake turner. Mix gently until juice is drawn out and sugar dissolved. Put fruit and juice into containers. Close and seal.

Fruits that darken upon standing need the addition of ascorbic acid to retain their flavor and color. Ascorbic acid in powder and tablet form can be purchased at many drugstores. To use, dissolve the recommended amount in a little cold water and add it to the cold syrup, stirring gently. Do this just before using the syrup. If ascorbic acid is not available, there are also ascorbic-acid preparations which can be bought in grocery stores, locker plants, and places which sell freezer packaging materials. Follow directions on the package for using.

Allow head space as follows: For containers with wide openings, allow ½ inch head space for pints and 1 inch head space for quarts. For containers with narrow openings, allow ¾ inch head space for pints and 1½ inch for quarts.

Fruits may be thawed in the refrigerator, or at room temperature, or in cool water. Always thaw fruits in the unopened container.

Corn on the cob: 1. Test for maturity by pressing thumbnail into kernel. If milk spurts out freely, the corn is best for freezing. Handle quickly.

2. Husk corn, remove silk, and trim ends. Eliminate oversize and undersize ears.

3. Blanch in boiling water: small ears for 7 minutes, medium ears for 9 minutes, and large ears for 11 minutes. Place 3 pounds corn (12 to 16 ears) in 3 gallons boiling water. Count time when corn is added to boiling water. Keep kettle covered and time accurately.

4. Cool corn for twice as long as it was blanched. Use large quantity of cool running or iced water (60 degrees or less). Agitate to speed cooling. Corn should be cooled clear through cob. Drain.

5. Wrap ears in plastic freezer bags. Dip in warm water to rid bag of air, seal, and wrap bag in stockinet.

6. Freeze immediately at zero degrees.

7. To prepare for eating: Partially thaw for 2 hours in unopened wrappings. Place in enough boiling water to cover ears. Cover and cook from 3 to 5 minutes after water returns to gentle simmer.

Corn (off the cob): 1. Test for maturity by pressing thumbnail into kernel. If milk spurts out freely, the corn is best for freezing. Handle quickly.

2. Husk corn, remove silk, and trim ends.

3. Blanch 6 medium ears in 1 gallon of boiling water for 4 to 5 minutes. Count time when corn is added to boiling water. Keep kettle covered; time accurately.

4. Cool corn for 4 to 5 minutes in large amount of cool running or iced water (60 degrees). Agitate to speed cooling.

5. Drain and cut corn from cob to about ⅔ depth of kernels.

6. Pack into containers, leaving ¼ inch head space for pints and ½ inch head space for quarts.

7. Seal and freeze immediately at zero degrees.

8. To prepare for eating: Place 1 pint frozen corn in ¼ cup boiling water. Cover and cook 4 to 6 minutes after water returns to gentle simmer.

Broccoli: 1. Choose tender, compact, dark green heads with tender stalks. Wash, peel the stalks, and trim. Then split lengthwise into pieces about 1½ inches across.

2. Blanch in boiling water for 3 minutes (1 pound broccoli per gallon of boiling water). Count time after broccoli is added to boiling water. Keep kettle covered, and time accurately.

3. Cool broccoli for 3 to 5 minutes in a large quantity of cool running or iced water (60 degrees or less). Agitate to speed cooling. Broccoli should be cooled all the way through. Drain.

4. Pack into containers so flowerets are at both ends of box.

5. Seal and freeze immediately at zero degrees.

6. To prepare for eating: Place 1 pint of vegetable in ¼ cup boiling water. Cover and cook from 5 to 8 minutes after water returns to gentle simmer.

Peas: 1. Select bright green, crisp pods, with peas which are tender and sweet.

2. Shell a small amount of peas at a time. Do not wash after shelling. Discard overmature peas.

3. Blanch in boiling water for 1½ minutes (1 pound of peas per gallon of boiling water). Count time when vegetable is added to boiling water. Keep kettle covered, and time accurately.

4. Cool peas for 1½ minutes in a large quantity of cool running or iced water (60 degrees or less). Agitate to speed cooling. Peas should be completely cooled.

5. Drain and pack into containers, leaving ¼ inch head space for pints and ½ inch head space for quarts.

6. Seal and freeze immediately at zero degrees.

7. To prepare for eating: Place 1 pint frozen peas in ¼ cup boiling water. Cover and cook for 5 to 7 minutes after water returns to gentle simmer.

[*Turn to page 74*

'Round-the-clock protection against "Tell-Tale Mouth"

IPANA KEEPS BREATH and TEETH CLEANER... REDUCES TOOTH DECAY!

Yes, using Ipana regularly after eating removes major CAUSES of mouth odor—keeps breath and teeth cleaner all day and evening.

This gives you really wonderful **'round-the-clock** protection against "Tell-Tale Mouth."

And it **reduces tooth decay** one of the best ways known.

Ipana contains **all** the ingredients necessary for effective mouth hygiene, including two scientifically formulated **purifying** ingredients.

Try it. Check the clean, keen-tasting **freshness** Ipana gives your whole mouth. Get this tooth paste that is **proved** in use by millions.

Ipana

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Send FREE 1952 Pattern Service

Name _____

Address _____

City _____ Zone _____ State _____

Brand name of product I buy, or would prefer to buy, in Cotton Bags _____

Freeze now

From page 73

Green beans: 1. Select tender, crisp, stringless, and medium-size beans. Discard small, immature and overmature, or bruised beans. Sort and wash thoroughly in cold water. Snap off ends and wash again. Break beans into 1- or 2-inch pieces or leave whole.

2. Blanch in boiling water for 3 minutes (1 pound beans per gallon of boiling water). Count time when beans are added to boiling water. Keep kettle covered; time accurately.

3. Cool beans for 3 minutes in a large quantity of cool running or iced water (60 degrees or less). Agitate to speed cooling. Beans should be cooled completely. Drain.

4. Pack into containers, leaving ¼ inch head space for pints and ½ inch head space for quarts.

5. Seal and freeze immediately at zero degrees.

6. To prepare for eating: Place 1 pint frozen beans in ¼ cup boiling water. Cover and cook from 10 to 15 minutes after water returns to gentle simmer.

Carrots: 1. Select young, tender carrots. Handle them quickly after harvesting.

2. Remove tops, wash, and scrape. Slice carrots in ¼-inch slices or leave small carrots whole.

3. Blanch sliced carrots in boiling water for 3 minutes (1 pound carrots per gallon of boiling water). Blanch tiny whole carrots in boiling water for 5 minutes. Count time when carrots are added to boiling water. Keep kettle covered and time as accurately as possible.

4. Cool carrots for 3 minutes in a large quantity of cool running or iced water (60 degrees or less). Agitate to speed cooling. Carrots should be completely cooled.

5. Drain and pack into containers, leaving ¼ inch head space per pint and ½ inch head space for quarts.

6. Seal and freeze immediately at zero degrees.

7. To prepare for eating: Place 1 pint frozen carrots in ¼ cup boiling water. Cover and cook from 7 to 10 minutes after water returns to gentle simmer.

When freezing vegetables: Select fresh, tender, barely mature vegetables right from the garden. Pick vegetables in the morning when it is cool. *Freezing will not improve the flavor of vegetables; they must be good to begin with.*

Process your vegetables as quickly as possible after harvest. They lose flavor and quality soon after they're picked.

Blanching is absolutely essential in freezing vegetables? Blanching (scalding) retards the action of enzymes, the chemical agents which promote undesirable changes in quality and flavor during freezing.

Blanching can be done in either boiling water or steam. However, the boiling-

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Reflector lettering—glass beads mirror light at night (like road signs)
Permanent embossed letters and numbers 1½" high
Lifetime aluminum—rustproof
Baked enamel—white beaded letters—black background
Double plate 18" long—reads the same from either side

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Mr. Clarence Schroeder

"My husband had strep sore throat and couldn't get rid of it. Our veterinarian treated our cow for mastitis and advised my husband to stop drinking her milk. His sore throat left. We bought pasteurized milk until we got our Home-Health Pasteurizer—now we know our milk is safe."

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Please send free folder on milk-borne diseases and their prevention.
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water method is most convenient in the average home. Place prepared vegetables in a wire basket, colander, or cheesecloth, and dip in kettle of boiling water. Cover the kettle to hold in steam. *Begin to count blanching time as soon as the vegetables are immersed.* Bring water back to boiling each time before adding vegetables.

Immediately cool blanched vegetables in iced or cold running water.

All vegetables can be cooked from the frozen state except corn on the cob, which should be partially defrosted. Vegetables frozen in a solid block may be allowed to defrost slightly so individual pieces may be easily separated, but don't let the vegetable itself defrost.

Do not overcook the vegetable—cook only until tender. Cook in a small amount of water—$\frac{1}{4}$ cup is sufficient. Add salt to taste. Have the water boiling before adding the vegetable. Keep the heat high until water returns to a boil, then reduce heat so water simmers gently. Keep the cover on while cooking.

Chicken: 1. Select young, healthy, well-finished birds. Withhold feed for 16 to 24 hours before killing. Provide plenty of drinking water. Kill bird and hang by feet to bleed. Pluck while bird is still warm. Loosen stubborn feathers by submerging bird (except for feet) for about 30 seconds in water at 125 to 130 degrees. Do not use boiling water. Singe off hairs. If possible, draw and wash bird thoroughly while still warm. Remove body heat quickly by chilling for 2 to 3 hours in crushed ice (1 pound ice per pound of poultry); or chill for 12 hours in refrigerator. Freeze the birds as soon as chilled.

2. Packing procedure for roasters (6 to 8 months old and from $4\frac{1}{2}$ to 8 pounds live weight): Fix as you would for immediate roasting but do not stuff. Remove oil sac and excess fat which gets rancid when frozen. Tie wings and legs close to body so wrappings will fit snugly. Wrap in large plastic freezer bag; dunk in hot water to force out air. Seal by twisting rubber band around opening. Protect with stockinet.

Packing procedure for fryers (young, tender chickens 10 to 16 weeks old): The older ones are less likely to have reddening of bones during freezing. Cut into usual pieces. Remove excess fat and oil sac. Insert pieces of freezer paper between layers of chicken to make thawing easier. Package compactly in moisture- vaporproof cartons.

Packing procedure for giblets: Wrap in moisture- vaporproof material and freeze separately (all except liver) and use within 3 months. Poultry can be stored satisfactorily for 3 months.

3. Seal and freeze immediately at zero degrees.

4. To prepare for eating: Partially or completely defrost the birds in their original package at room temperature or in a refrigerator. A 3-pound bird takes about 15 hours in a refrigerator. Cook thawed poultry as you would freshly dressed birds and as soon as possible. END

Hate to tackle **crusty** pans?

BRILLO
soap pads—
TWICE the SHINE
in half the time!

A square metal-fiber Brillo *pad-with-soap whisks* pans bright! Tests *prove* Brillo outshines all other types of cleansers tested. Gives aluminums *twice the shine in half the time!*
RED BOX—*soap-filled pads*
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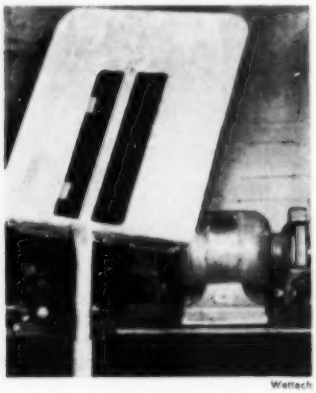
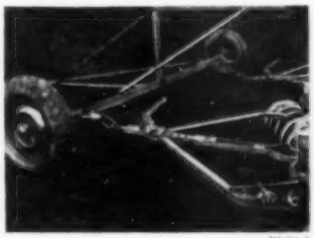
Photograph, McManigal

Hog feeder was built by Jerry Bechtold, Horton, Kansas. Feeder consists of wood trough base with a strip of iron around the inside of the upright partitions. The 50-gallon drum fits inside the iron strip



Wettach

Safety shield for use with a power grinder was built by Howard Fountain, Iowa City, Iowa. Shield is made of heavy sheet metal with a piece of car windshield fitted in the center. Shield height is adjustable

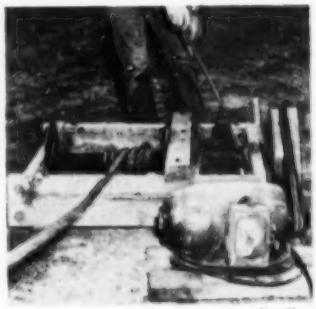


Wettach

Disc hitch on wheels lets the McAllister Brothers, Mount Union, Iowa, pull two discs plus a harrow with one tractor. Auto wheels are mounted on 1½" axles. Hitch plate can be spaced to suit the implement

McVicker

Livestock chute was built by George Wilking, Zanesville, Ohio. Floor of the chute is part of the rack and is hinged to the bottom of the truck bed. The sides of the chute are carried on one side of truck



Van Cleve

Hay fork is powered by this device on the Norman Roth farm, Tazewell County, Illinois. Old disc axle, car transmission, electric motor, and a wooden frame were used. A car transmission makes it possible to run the power unit backward or forward

Wettach

Stump lifter was built from a sharpened plow beam fitted with a handle. Built by Harry Pross of Marion County, Missouri

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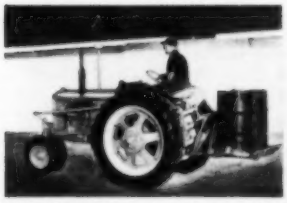
Eagle Hitch Roller-Packer lifts clear at a touch of hydraulic control—backs into corners, skips wet spots, travels highways without touching hard surface.

Spike-Tooth Eagle Hitch Harrow folds narrow for transport, spreads wide and flexible in the field, lifts at a touch of hydraulic control to shake out trash.

Case Forage Harvester gets going easily, keeps running steadily, with live power take-off drive from Case "DC" Tractor. No interruption of power when tractor halts.



Utility Carrier mounts in a minute on Eagle Hitch—lowers to load without lifting—hauls heavy boxes, barrels, bales, feed, fertilizer, fence materials, animals in rack or crate.

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Here are big 2 and 3-bottom mounted plows that take only a minute to hook up—no lifting, no back-work, no tool kit needed. Break-away release allows main part of plow to "let go" on striking stone—saves shares and beams. Operator stays on tractor—recouples by backing up. Hydraulic control lifts plow to go over obstacle, lowers to go on. In normal operation plows are not carried by hydraulic system—instead, they float at depth set by handy turnbuckle. Pivotal action keeps furrow width uniform on contour curves and rounded corners, makes steering easy. Don't say it's too good to be true. See your Case dealer now about Eagle Hitch Farming—arrange for a personal demonstration.

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Conventions

From page 45

presidential candidate? By a series of circumstances, nearly always including a little luck.

It helps, for instance, if he comes from a heavily populated pivotal state like New York or Ohio, home of nearly half the candidates of our major parties since 1865. It's a sad fact, but true, that his religion counts heavily. His associations mean a lot—he shouldn't owe too much to any one pressure group, or he'll make other groups unhappy.

The parties are looking for someone who can catch the public's fancy, who hasn't made too many enemies, who can unite various factions in a common cause—and who most of all *looks like a winner*.

If they observe the usual pattern, the conventions will present this sort of show:

On the first day, the meeting will be called to order, "The Star-Spangled Banner" sung, a prayer offered, and the group will be welcomed by a city or state official. The convention call will be read, and the national committee will recommend someone to be temporary chairman of the convention.

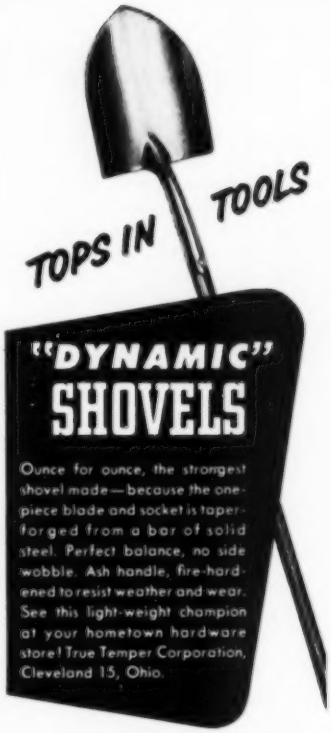
The delegates will accept him by voice vote. Then the temporary chairman will deliver the keynote address (which he's had written for a fortnight, and by now has partially memorized).

After this, there'll be a medium ovation, lasting only a few minutes, and the first day's session will close.

The second day will bring the appointment of committees, especially the platform committee (whose members probably already have been hard at work for at least a week). More speeches, some music, and the second day ends.

The ball really gets rolling the third day, when the platform is proposed. This could bring quite a fight—witness 1948, when the civil rights plank in the Democratic platform was so bitterly opposed in the South that some delegations walked out and formed the States Rights Democratic Party. These Dixiecrats went on to win 39 electoral votes, nearly upsetting President Truman's applecart.

Party platforms, like conventions, aren't intended to be taken too literally. They state something of the party attitude on every subject the politicians think might affect any major group of voters. If the subject is a touchy one, the platform will straddle it as inconclusively as pos-



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sible. Both sides will take strong stands for peace, home, God, and motherhood, and be pretty vague on everything else.

If the platforms sound familiar, don't be alarmed—they've been much the same for years. In 1852, for instance, the Democrats came out for rigid economy in government and reduction of public debt, and worried about the political situation in Europe. It's dollars to doughnuts both parties echo this in 1952.

Once the platform has been adopted, the convention gets down to nominating a candidate for the presidency. It's a long process—each major speech generally lasts 20 or 30 minutes, and there may be several 5-minute seconding speeches.

The man who is about to be nominated is described as a sterling character, a 100-percent American, endowed with so many wonderful traits of character and quality he's only slightly lower than an angel, and—most important—a sure winner.

At the end of the nominating speech, the convention turns into an uproar with wild demonstrations and parading. To one observer it has "looked like 15,000 people with St. Vitus' dance."

Who'll get the first nomination? That depends on the Alabama delegation, because nominations are called for by an alphabetical roll call of the states. If Alabama has no favorite son of her own, she'll pass her place to the state which will suggest the candidate she prefers.

After all nominations are in, the roll is called again, and each state announces its choice. If no individual gets a majority on the first ballot, the process is repeated until one does.

Once the presidential nomination has been completed, the choice of the vice-presidential nominee is pretty much of an anticlimax. The same general procedure is followed, but it takes much less time—perhaps just long enough for the presidential nominee to put the finishing touches on his acceptance speech and promise a winning campaign.

After the acceptance speech, delegates pack up and go home. They've just played in the greatest political show on earth, and they're tired. **END**

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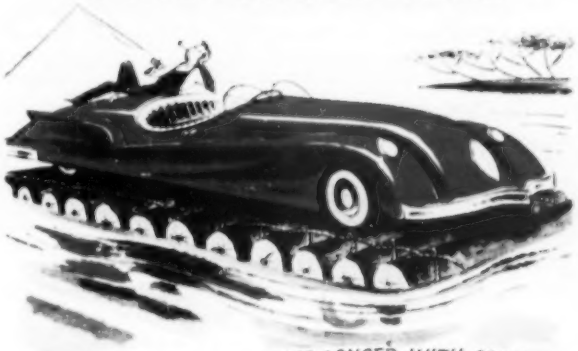

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Use it also as space spray in barns and homes. Works fast—costs little . . . Order now. Phone or write your Sinclair Representative.

SAFE—CONTAINS NO DDT

Stanchion or loafing barn? We like 'em both

From page 18

of milk cows. This allowed some leeway for enlarging the herd. At present it numbers 27.

Mr. Jungbluth divides the chores among his boys so each has a definite daily job. However, they cooperate in operating both farms. Also, each of the older boys can, in case of illness or time off, step in and handle the work of his brothers. This eliminates any bogging down or piling up of work.

Joe, Jr., 23, and Jerry, 22, handle all the milking and feeding chores at the loafing barn. Chuck, 18, and Tom, 15, and their father do the comparable chores in the stanchion barn. Paul, 9, pitches in here, too.

At the time this article was being written, the stanchion barn was shipping 22,940 pounds of milk per month from 20 head of cows. This milk goes to the Milwaukee market. The parlor barn ships to the Chicago market. About 31,000 pounds per month from 27 head is the production from the loafing barn.

If you mention that the loafing-barn cows aren't doing any better than the stanchion-barn cows, Jerry will quickly offer an explanation. He says the loafing-barn herd has a couple of old "cripples," as well as a "three-teater" in the herd—all inherited from the stanchion barn!

The cows in the stanchion barn are all purebred Holsteins. Their milk tests 3.5. In the loafing-barn herd there are about 7 grade animals—the rest are purebred Holsteins. The loafing-barn herd tests 3.9. Why the difference? "Maybe because the grades are part Guernsey, or maybe because this herd is more comfortable and contented," suggests Joe, Sr.

"We had four rather old cows that were so stiff they could hardly walk," continued Joe. "We moved them over to the parlor barn, and now these animals are in a very fit condition and have lost all of their stiffness.

"I do believe that a farmer can get more years of milk production from a cow with a loafing barn," concluded Joe.

The feeding of the herd varies slightly. In the loafing barn, the boys feed hay silage in the morning and evening, and corn silage at noon. The loafing barn is also bedded at noon. These operations are done at noon because they give the boys an opportunity to look over the herd in the middle of the day.

The herd in the stanchion barn is fed corn silage in the morning and late afternoon. Cows get hay silage at noon and at milking time in the evening.

Bedding is a problem with the loafing barn. It takes a good deal more than the stanchion barn. The extra cost of straw is somewhat balanced by the fact that it is spread back on the land with the manure.

The Jungbluths use the excess straw from the stanchion barn in the loafing barn. If the winter is particularly mild,

the herd spends more time out in the yard, and less straw is needed to keep the loafing area properly bedded.

The milking parlor is built into one end of the loafing barn. The calf pens are next to the parlor. The straw mow is above this area, and the straw is blown into it at threshing time. This setup makes it convenient to bed down the loafing area. Excess straw is stacked on one side of the loafing area and is used first.

Joe Jungbluth and each of his boys have their own ideas on these two different ways of handling milk cows.

For instance, Chuck said, "In the loafing barn you don't have to clean the barn every day. To me this would mean more leisure time and a little relief from daily chores."

Joe, Jr., has had 15 years' experience with a stanchion barn, and 2 years with the loafing barn. He commented, "The milking parlor isn't necessarily less work, but it is, without a doubt, handier work. We can do more work with less effort."

Jerry feels as Chuck does, in that it's an advantage not to have the chore of cleaning the barn every day as in the stanchion barn. But he said, "In the stanchion barn, a person can handle the cows individually—special feed or special care. In the loafing barn, it's a problem when we want to catch a cow for some reason. In the long run, I don't believe there is too much difference—each method has its advantages."

"Don't forget," said Joe, Sr., "that we haven't used the loafing barn as long as the stanchion barn. But I must say that in the time we have used it, we've never had a cow develop stiff or big legs. We've never had a cow injure her udder or teats or go off feed due to lack of exercise. In view of the fact that we have our share of these troubles in the stanchion barn, I believe these facts must be recognized as advantages of the loafing barn.

"I'll tell you one thing," Joe, Sr., continued, "the loafing barn is not the way to handle a show herd. The cows are dirtier—manure gets caked on their hides. Because the cows have access to the outdoors and because the loafing area is considerably colder, the cows develop much longer hair and, all in all, are much rougher in appearance.

"We like both barns—we can see advantages to both. A fellow should analyze his own personal setup—the bedding supply, amount of help available, and number of cows he handles—before he jumps into either. Perhaps the milking parlor-loafing barn system isn't meant for every farmer. As for us, if we had to do it over again, I think we would do just as we did—build the loafing barn," concluded Joe Jungbluth, Sr. END

Do you plan to move?

If you are going to move, please let us know five weeks beforehand if possible. Send your change of address to *Successful Farming*, Des Moines 3, Iowa, giving both your *old* and *new* addresses.

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Aureomycin was the *first* antibiotic to bring larger profits to livestock and poultry raisers for the astounding growth gains it promoted in chickens, turkeys, pigs and calves.

Today, this same versatile antibiotic is being more and more widely used for the prevention or treatment of animal diseases. Many workers have shown that aureomycin is effective against diseases for which there was no previously successful treatment.

Some of the diseases for which aureomycin has proved effective are:

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Recipes for

"Freeze now"

There's nothing very difficult about fixing these tasty foods pictured above and on page 42, but we thought you'd be interested in knowing how we made them.

1 Here's how for: Broccoli, Fried Chicken, and Corn

Broccoli With Lemon Wheels

Serves 2

Place . . . . **1 pint broccoli** in **¼ cup boiling, salted water**
Cover and cook for 5 to 8 minutes after water returns to gentle simmer.
Top with **butter** or **margarine**
Garnish with **lemon wheels.**

Fried Chicken

Defrost birds partially or completely in original package at room temperature or in refrigerator. (A 3-pound bird requires about 15 hours to defrost in the refrigerator.)
Cook thawed birds as you would freshly dressed poultry.
Cook as soon after thawing as possible.

Corn on the Cob

Thaw ears partially for 2 hours in unopened wrappings.
Place in enough boiling, salted water to cover corn.
Cover and cook for 3 to 5 minutes after water returns to gentle simmer.
Serve immediately.

2 Here's how for: Peach, Strawberry, Cherry, Blueberry Tarts

Peach Cream Tarts

Fills 4 tart shells

Prepare according to directions
1 package vanilla pudding
Cool slightly.
Pour into **4-inch baked tart shells** (use pastry recipe calling for 1½ cups flour)
Top with **frozen peach slices.**

Strawberry Chiffon Tarts

Fills 4 large tart shells

Dissolve . . **1 3-ounce package strawberry gelatine** in
1 cup boiling water
Chill until partially set; whip.
Beat . . . . **2 egg whites** until frothy
Add . . . . . **¼ cup sugar**
Fold into gelatine mixture:
¾ cup frozen strawberries, thawed and drained
½ cup heavy cream, whipped
beaten egg whites
Pour into **4 5-inch baked tart shells** (use pastry recipe calling for 1½ cups flour)
Chill until firm.

Cherry Tarts

Makes six 5-inch tarts

Sift together:
2½ cups sifted flour
1¼ teaspoons salt
Add . . . . **¾ cup shortening**
Cut in with blending fork until pieces are size of small peas.
Add . . . . . **6** to **7 tablespoons cold water** by teaspoonfuls until all flour-coated bits of fat are dampened
Turn onto waxed paper.
Gather up corners of paper.
Press into ball. .
Roll out dough for six 5-inch tart shells.
Cut leftover dough into ¼-inch strips.
Braid (3 strips per braid) for edgings and handles.
Bake handles by shaping braided strips around sides of No. 2 cans.
Bake handles at 450° for 6 minutes.
Bake shells at 450° for 10 minutes.
Combine **½ cup sugar**
3 tablespoons cornstarch
Add slowly to make paste
2 cups juice from thawed cherries (or water to make 2 cups liquid)
Cook until thick and clear.
Add . . . . . **2 tablespoons butter**
½ teaspoon cinnamon
4 cups frozen, sweetened cherries, thawed and drained; cool
Pour into **6 5-inch baked tart shells.**
Place baked handles on shells.

[*Turn to page 84*

More Help for the Budget with CLABBER GIRL

This recipe is economical because it makes use of two kinds of left-overs — ham and corn ...also, the recipe makes a very little meat go a long way... fritters and syrup make an interesting and unusual main course for lunch or supper... fritters are quick to mix and quick-cooking, feather-light inside and crispy outside.

Ham and Corn Fritters

1½ cups sifted all purpose flour
2 teaspoons Clabber Girl Baking Powder
1 teaspoon salt
2 eggs, well beaten
½ cup milk
2 tablespoons shortening, melted
1 cup finely diced left-over ham or luncheon meat
1 cup drained left-over cooked or canned whole kernel corn

Sift flour, baking powder and salt into mixing bowl. Combine eggs, milk and melted shortening; add to flour mixture all at once. Stir just enough to mix. Fold in ham and corn. Drop heaping teaspoonfuls into deep fat heated to 365°-375°F. Fry three or four minutes or until golden brown, turning occasionally. Lift out and drain on absorbent paper. Serve hot with syrup—three fritters per serving.

You are sure to get just the right rise in your mixing bowl, followed by that final rise to light and fluffy flavor in the oven: That's the story of Clabber Girl's balanced double action.

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Dr. Scholl's Zino-pads

"Freeze now" recipes

From page 83

Blueberry-Cheese Tarts

Makes six 5-inch tarts

Soften ... **1½ teaspoons unflavored gelatine** in
2 tablespoons cold water
Combine **1 egg yolk,** slightly beaten
¼ teaspoon salt
¼ cup sugar
¼ cup lemon juice
Cook over hot water, stirring constantly, until mixture coats a spoon.
Remove from heat.
Add gelatine and stir until dissolved.
Beat ... **3-ounce package cream cheese** into custard
Beat ... **3 tablespoons sugar** into
1 egg white, stiffly beaten
Beat stiff; fold into custard mixture.
Pour into **6 5-inch baked tart shells**
Cook ... **3 cups frozen blueberries,** thawed, with
1 cup sugar and
¼ cup water until soft
Drain berries.
Add water to berry juice to make
2 cups liquid
Add ... **2 tablespoons cornstarch** to ½ cup of the liquid
Add remaining juice.
Cook until thickened and clear.
Add blueberries; cool.
Pour over chilled custard.
Chill before serving.

Here's how for: Peas in Potato Baskets, Green Beans, Carrots

Creamed Peas

Place ... **1 pint frozen peas** in
¼ cup boiling, salted water
Cover and cook from 5 to 7 minutes after water simmers.
Melt ... **2 tablespoons butter**
Blend in **2 tablespoons flour**
Add ... **1 cup milk**
Stir over low heat until thick.
Add ... **¼ teaspoon salt**
Add drained peas to white sauce.
Serve in ... **French-fried Potato Baskets**

French-fried Potato Baskets

Makes 4 baskets

Grate ... **potatoes** coarsely (2 cups piled loosely in measuring cup makes 4 baskets)
Pack a thin layer loosely in potato-basket fryer.
Fry in deep hot fat at 375° until well browned.

Carrots

Place ... **1 pint frozen carrots** in
¼ cup boiling, salted water
Cover and cook from 7 to 10 minutes after water simmers.

Green Beans

Place ... **1 pint frozen beans** in
¼ cup boiling, salted water
Cover and cook 10 to 15 minutes after water returns to simmer.

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A duster "cap" of gay cotton print tied on your broom makes it easy to clean high ceilings and cupboards. Its soft yarn "topknot" absorbs dust and cobwebs. This inexpensive helper washes easily, saves climbing on house-cleaning day.

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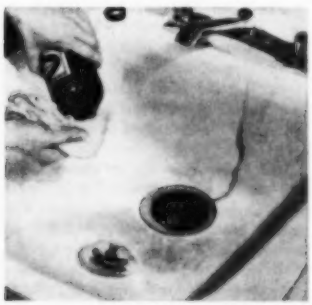

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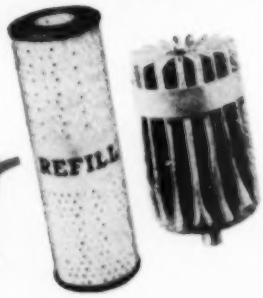

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Culling profitmakers

From page 30

take a look at the points in pullet culling.

Outward signs aren't foolproof in pullet culling, but they'll put the skids under most of your profit eaters. For poultrymen who produce only market eggs, the job can be reduced to about four essentials: weight at laying age, shape and color of eye, straightness of breast, and general sexual and body development (see pictures, page 50).

The pullet in the top picture is definitely undersized—lacks about 1½ pounds of weighing what she should. She hasn't made the best use of what her owner provided, and probably will not make a good layer. Body development is one of the best yardsticks.

If the underdevelopment is due to lack of feeder space, it's likely a case of a timid bird's being kept away from the hoppers by more aggressive ones. In any case, she probably will not be a good layer. The last 20 percent of the pullet flock to start laying usually contains such slow, undeveloped birds. So, cull 'em.

Range paralysis (one form of the avian leukosis complex) is one of the most vexing poultry diseases. Much of the trouble can be avoided by sending to market those birds with "gray eye" or with an irregular iris or pupil.

While culling out the gray-eyed birds, you may eliminate a few which merely have pale eyes. However, it's better in this case to be a little too severe than too lenient. The irregular iris or pupil is a surer indication of leukosis than the gray eye. Sometimes, they both appear in the same bird.

A crooked breast certainly is no delight to a poultry buyer. This problem is of greater concern to a flockowner supplying a hatchery than to one who sells only market eggs. This deformity may be due to malnutrition or to inheritance. Since the crooked breast is a heritable trait, no bird with this deformity has a place in a hatchery flock.

Even though a producer of market eggs only, you may find it good business to throw out a bird with a crooked breast if she is only an occasional one in the flock. Her deformity may be telling you that she can't make as good use of the minerals in the ration as her sisters.

Sexual development, as shown about the comb and face, probably is a more accurate indication of laying ability than such characteristics as length and depth of body. Some of the highest-producing birds have had far from ideal body shape.

Good sexual development is indicated by a well-developed comb that is soft and silky to the touch. When the pullet has just started to lay, or has been laying only a short time, her comb is hot. Watching for the hot, well-developed comb is a good way to spot early layers and nab draggy ones.

A bright, prominent eye isn't necessarily an indication of a future high pro-

ducer, but a dull, sunken eye certainly goes with the poor layer. Thanks to hatchery selection, crow-headedness is not so commonly found today. It probably is advisable to throw out the crow-headed bird whenever one appears.

Yellow pigment in the legs of a pullet (for yellow-skinned breeds) shows that she has what it takes to lay eggs. Any pullet coming off green range certainly should have yellow legs.

Split wings are on the border line as to whether they indicate lack of future productive ability. Some believe that this defect is a sign that the bird lacks ability to assimilate feed. It's doubtful whether the producer of market eggs should consider split wings as a reason for culling. However, the situation is different for most flocks supplying hatcheries operating under the N.P.I.P. rules and regulations.

Now let's take a look at the changes which take place in the body and skin of a laying hen as she goes out of production. A few birds quit laying throughout the laying season. However, the big drop doesn't take place until late-spring and summer months. When the flock's rate of lay drops below 60 percent, it is a signal that some of the birds are not paying their way.

The color of the skin (pigmentation) is the most obvious sign of production. When a yellow-skinned pullet starts to lay in the fall, the yellow color gradually decreases. After several months of laying, the yellow beak and legs are bleached "white." This color leaves first from the vent, then from the eye ring, ear lobes, beak, and shanks.

On the beak, the pigment leaves first from the part next to the face and gradually progresses during six to eight weeks toward the tip. After six to eight weeks of lay the beak is bleached. The back of the shanks and top of the toes are the last to lose the pigment. This occurs after six to eight months of lay. The return of yellow color to the various parts of the body is a sign the hen has gone out of production. The yellow color returns in the same order it left—the vent, eye ring, ear lobes, beak, and legs. So keep an eye open for the return of yellow color to these parts.

Here are some other points to look for when culling a laying flock. Check the "lay bones" around the vent. They are pliable and can be easily spread in a layer. Non-layers' lay bones become rigid.

Check the vent. The vent of a laying hen is large, moist, dilated, and has an "oval" shape. In contrast to this, the vent of a non-layer is small, dry, contracted, and nearly round.

Check the comb. A layer's comb is usually bright, full size, and red. A non-layer's comb is dull and shrunken.

In order to keep your flock in the profit column the year round, catch out and sell the non-layers. Each cull can eat its weight value of feed in two or three months. So by getting rid of your non-producers you not only save the cost of feeding them, but you can maintain a profitable, high rate of lay. END

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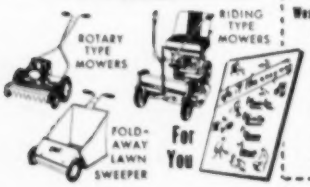

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Basement moisture

From page 30

Using dehumidifiers. Water drawn from the air collects in a pail or drawer-type receptacle inside the dehumidifier and must frequently be emptied. Or a rubber hose, connected to the drip pan, may carry the water directly to a floor drain.

Through the weeks it is most needed, the unit is usually operated day and night. Frosting up of the coils is an indication that humidity has been reduced to normal level, and that the dehumidifier should be disconnected.

Most of the air-drying appliances have a 1/8-hp motor, and operate very economically. One manufacturer estimates the cost of running at 8 to 15 cents a day, depending on local rates; another compares current consumption to that of a 250-watt light bulb.

Occasional brushing or use of the vacuum cleaner on the condenser fins (see the cutaway picture on page 30) is usually the only care needed. Hermetically sealed mechanisms require no oiling or adjusting.

A five-year "protection plan" is offered by most manufacturers, providing a guaranty similar to that on most other appliances of well-known makes.

General features. The dehumidifiers can be easily moved anywhere in the house. Some of them have metal glides similar to those on furniture, and a few have casters on the bottom. Convenient built-in grips or handles make some of the units easier to lift.

Sizes and shapes—you can take your choice. Heights vary from 17 to 32 inches. Examples of height and width dimensions are 12x12 inches and 14x19 inches. A unit may weigh anywhere from 55 to 100 pounds.

Compact and neatly styled cabinets make most dehumidifiers easy to locate in almost any small space. Attractive baked-on enamel finish contributes to good looks and the ease of cleaning.

Year-round uses. A dehumidifier can come in handy any time of the year. You can take advantage of weather that's too bad for outside work—get indoor repair and redecorating done. Even on wet days, new concrete, plaster, paint, and varnish will dry faster with the aid of one of these moisture-loving units. Hook it up in the living room to fast-dry your carpet after shampooing. Take it to the laundry room to clear up the muggy atmosphere, make the clothes dry faster. And during canning season, try keeping your dehumidifier in the kitchen—it will draw steam from the air, help you to feel cooler and more comfortable. **END**

You can lick

tomato blight

By A. F. Sherf

This year you can avoid the disappointment of seeing blight consume your tomatoes before your eyes.

Early blight generally appears on the lower, older leaves. You will first notice it as small, irregular brown dead spots which rapidly enlarge to $\frac{1}{4}$ or $\frac{1}{2}$ inch in diameter. As they get larger, these spots show ridged concentric rings in a target pattern. The diseased leaves soon drop off, leaving the fruits exposed to the sun and making them sunscald.

Septoria fungus blight causes similar leaf spotting and dropping, and also sunburning. The spots on the plants are smaller and have gray centers surrounded by darker margins.

Late blight usually appears in mid- or late August at the peak of the picking season. It is more dependent upon cool, rainy, humid weather than early blight. It has been very serious in home gardens and commercial fields in the Midwest during the past three years.

First infections are irregular, greenish-black water-soaked areas. These spots rapidly enlarge and show a white downy growth on their undersurfaces. In fairly warm, wet weather these infections may develop so fast that nearly all the leaves and fruits look as though they had been frosted overnight. Rotting of the upper half of the fruit near the stem is most common. Small, light green spots soon darken and become blotched with brown. The surface later becomes firm and rough, and on red fruit a green line appears between healthy and diseased tissues.

A type of copper compound called fixed copper, widely sold under various trade names, has proved very effective. Zineb fungicides such as Parzate and Dithane Z-78 or a slightly different chemical, Manzate, can also be used. These materials should be used at the manufacturer's recommended rate, which is generally about 4 pounds of the copper fungicides or 2 pounds of the zineb products per 100 gallons of water, or roughly 2 and 1 tablespoons, respectively, per gallon of water.

Begin applications when first fruits are walnut size, and continue every 10 days. During rainy spells try to apply the chemicals before the rains, as protection is needed badly then.

If dusts are used, they must be put on every 5 to 7 days, preferably early in the morning or late in the evening when dew will aid in holding the chemicals on the plants. "All-purpose" dusts are satisfactory, providing they contain copper or zineb. Why not give these fungicides a try on your tomatoes this season? **END**

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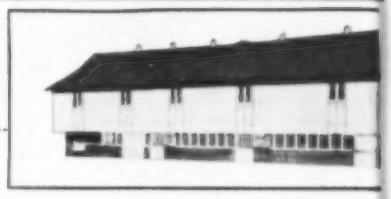

Barn of Dr. A. L. Hauer, Palmyra, Pa. (Contractor, Ammon Wenger, Annville, Pa.). Roofing is "Century" No. 5 Black Asbestos Shingles.

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Dairy

Controlling cattle mange

More and more cattle are showing up with cattle mange. Benzene hexachloride and lindane are now being used as a control. Cattle with mange appear scabby and unthrifty, rub constantly, and lose patches of hair. Mangy cattle also infested with lice gain slower than they normally would.

The Illinois Experiment Station advises spraying cattle twice, about 10 days to 2 weeks apart, with either BHC or lindane. To get good control of mange, cattle must be thoroughly saturated. A pressure of 150-250 pounds in the sprayer seems to give best control. Mange is found on both dairy and beef cattle.—*R. V. C., Illinois.*

Hideaway barn table

Emmett Volenberg of Dane County, Wisconsin, often needed a table in the barn, so he built the one shown below. It can be folded up out of the way when not

Photograph: Bailey

being used. The table is particularly appreciated by the cow tester at milking time and it comes in handy on other occasions, too. Three hinges and some scrap lumber are all that's needed to build such a table.—*J. W. B., Wisconsin.*

Dairy-cow sterility studies

Research on sterility of dairy animals is beginning to pay off at the Cornell Experiment Station. Dr. S. A. Asdell reports that nutrition levels have a large effect on breeding efficiency. Animals fed at low feeding levels tend to be less efficient than those fed at higher rates. Heifers fed at subnormal rates mature late, and usually have greater difficulty in calving. Breeding efficiency may be inherited, but the heritability is so low that it is not worthwhile to select for fertility under present breeding systems.

Vibriosis has received much attention from the researchers. The disease, which often "hides behind" brucellosis, is a frequent source of breeding difficulties. Herd treatment consists of culling the bull and many of the cows, using a new young

bull on virgin stock, and breeding the older cows artificially.

Investigations of 26 New York herds by Cornell's mobile laboratory show breeding troubles to be about evenly divided between disease and faulty management. Vibriosis is the most important disease at present.

New treatment for ketosis

Research at the Cornell Experiment Station lends new light on the control of ketosis. According to L. H. Schultz of the Animal Husbandry Department, results look good.

Nineteen cows with ketosis, ranging from mild to severe, were treated by oral administration of sodium propionate at levels of ⅛ to ½ pound daily. All of the cows showed increases in milk production and improvement of appetite. At the end of 10 days or less of treatment, blood-sugar values were normal in all cows and blood ketones had returned to normal in all but three cases.

Schultz believes that the use of sodium propionate will prove helpful in the control of ketosis. He says that because some of the cases were mild and because there is a certain amount of spontaneous recovery, these results should be interpreted conservatively. He does not suggest that this treatment replace the present widely accepted treatments of ketosis with such things as dextrose, chloral hydrate, and cortisone, but feels that it offers an additional tool in controlling the disease.

His method of administering sodium propionate is fairly simple. Under conditions in the experiment, cows fed grain ate the propionate when well mixed in the grain. However, it was found best to start feeding about 1 ounce per feeding for a couple of feedings to get the cattle used to it. Then the dosage was increased to 2 ounces per feeding to give ¼ pound daily. In mild cases it appears that ¼ pound daily is sufficient. This is probably about the maximum that cows will take in the grain. One-eighth pound daily is apparently not enough to be effective against ketosis.

In more severe cases it appeared that ½ pound daily in two doses was more effective. When this larger amount is given, and when the cow is not eating grain, it is necessary to give it by capsule or drench. Ten days of treatment seemed to be sufficient for most cows. Some cows, particularly the extremely fat ones, required a longer period for the blood picture to return completely to normal. The cost of the treatment is low compared with that for other methods.

Timer for milking job

An automatic timer on the R. A. Lasswell farm in Henry County, Missouri, reminds the operators when 4 minutes are up. The ringing bell is a signal to shift the milking unit from one cow to another. Lasswell's son made the device, using a regular doorbell, a transformer, and time clock. Lasswell says it saves a lot of time and makes for better care of the cows, as the operator has a better idea of how long the milker has been on.—*O. D., Missouri.*

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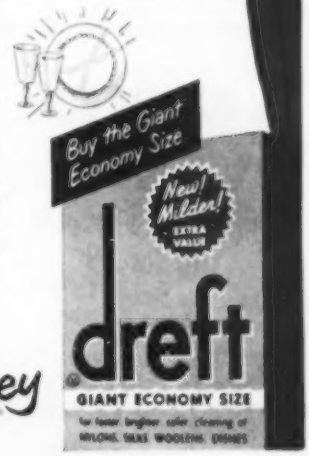

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Here's an easy way to control horseflies

By James S. Ayars and H. B. Petty

Horsefly country extends in a wide belt from upper New York to western Texas. Here, for six or more weeks every summer, blood-hungry flies make life miserable for livestock and cut deeply into the profits of livestock owners. The big, biting flies attack grazing cattle. They make painful punctures in the animals' hides and leave trickles of blood on their backs. The flies interrupt grazing so much that, during the horsefly season, beef and milk production rates sometimes drop sharply.

Anaplasmosis, a disease often fatal to cattle, is thought to be spread by horseflies. And screwworms find convenient points of attack in the punctures made in the hides of cattle by the horseflies.

Horseflies can be controlled if you are willing to put forth a little effort and money. The method described in this article started with practical research by Willis N. Bruce, associate entomologist, Illinois Natural History Survey.

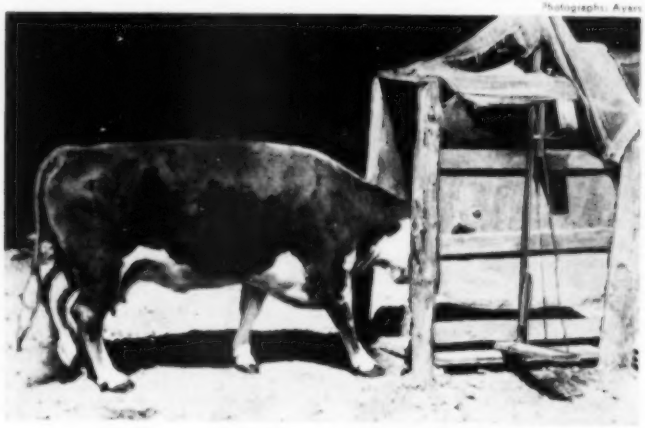
In the summer of 1947, Bruce went to work on the horsefly problem in southern Illinois—fertile area for the big biters. He tried out a large number of insect killers. DDT, effective against many other insects, was rather ineffective against horseflies. The best of the insecticides tested consisted of activated, or stepped-up, pyrethrins.

Used as a concentrate or diluted 1 to 9, this pyrethrin spray gave good control of flies of all kinds when applied to cattle daily or two or three times weekly. Such frequent sprayings suited the dairy farmer but not the beef-cattle feeder. So Bruce set to work to build a sprayer that would let cattle on pasture spray themselves without any help from the farmer.

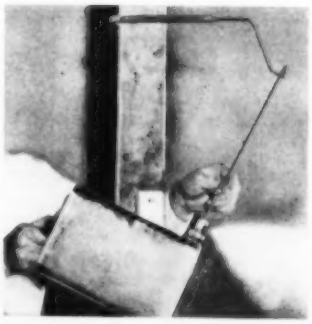
The first model Bruce built consisted of a treadle mounted in a chute, two small pumps, springs, connecting rod, windshield, and a gallon can of spray.

[Turn to page 94

Photographs: Ayars



Cattle spray themselves as they go from one pasture to another. When the cattle walk through the chute, they step on a treadle which pushes the plunger on the homemade sprayer, and the flies are killed



Spraying unit, which is mounted on one side of the chute, is easy to build. Sprayer consists of two small pumps, springs, windshield, and spray can. Plans are available from the Illinois Natural History Survey

"After 2 fires, I'm a firm believer in steel farm buildings"

says Chris F. Hansen
Grand Mound, Iowa

Chris Hansen knows that many farmers have been wiped out by disastrous fires. Read what he has to say about this problem that concerns every farmer:

"My steel buildings suit me fine. Most outstanding satisfaction is knowing that, in my steel buildings, I have protection against the many fire hazards that are always present on farms. After experiencing two fires on my farms, I am a firm believer in steel farm buildings.

"I also like the strength and durability of my steel cattle building and the machine building. They have a fine, neat appearance. The insides don't have any posts so it is easy to store machinery and clean the cattle shed. Also I know I will receive many years of low upkeep service from my steel buildings."

If you're looking for safety on your farm, check up on *steel buildings*. When properly grounded, they offer unbeatable protection against lightning. In many communities, you can get the very lowest insurance rates on your steel buildings; in fact, fire underwriters consider steel construction to be the safest of all.

Compare the convenience, safety and value of steel buildings against any other type of construction and you'll see why so many farmers agree that *you get more for your money when you build with steel.*

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Agricultural Extension Bureau, United States Steel Company
Room 2803A, 525 William Penn Place, Pittsburgh 30, Pa.

Please send me free literature about steel farm buildings. Building will be used for .....

Approximate size or capacity .....
Send information to:

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Address .....

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United States Steel Company is a steel producer, not a steel building fabricator. Your request, therefore, will be sent to building manufacturers who fabricate steel buildings for farm use.

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USS

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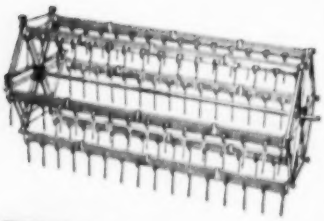

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Write for FREE information. Please give make and model of your tractor.

R. L. FROHRING MACHINE COMPANY DEX 2329 CRAGIN FALLS, OHIO

Control horseflies

From page 92

When a beef animal walked through the chute on the way to water or salt, it stepped on the treadle which pushed the plungers of the pumps. The pumps then sprayed a small amount of concentrate spray on the animal in the chute. More recent models built by Bruce have been simpler. But that first model gave such spectacular and inexpensive control of horseflies that some Illinois farmers who saw or heard about it built self-sprayers for their own cattle.

Fred C. Mattes of Vandalia read about Bruce's machine and decided he'd like to have one for his beef cattle. The sprayer that finally took shape had several improvements not found on Bruce's original model. The chute was mounted on skids to make it easily portable.

Rough lumber was used for the chute, and Mattes estimates that the total cost of the sprayer, counting labor, was $22.

The sprayer was set up early in July between an unimproved pasture where salt was available and an improved pasture with a good mixture of clovers and grasses. For about 10 days the 50 head of cattle on pasture had to be driven through the chute.

"After we ran them through four or five times, we could see the difference in the way they *didn't* fight flies," Mattes says.

The cost of spray material for the 50 head of cattle for the two months was about $35, which figures out a little more than 1 cent per animal per day.

Mattes estimates that at the end of the summer his cattle averaged 20 pounds more per head than if they hadn't been sprayed. The extra gain from 10 of his cattle more than paid for the cost of the sprayer and insecticide.

"The high original cost of the insecticide scared me at first," Mattes said. But he soon saw that the small amount of the undiluted material put out by a single stroke of the spray nozzle made the cost per animal per day very low. "You need a demonstration to be convinced," Mattes added. "I wouldn't be without this machine now.

"Even the cattle got wise to the sprayer. After the horsefly season was over, I took down the fence between the two pastures so that the animals wouldn't have to go through the chute. But some of them kept on going through anyway. They seemed to know that the sprayer was keeping them free of flies."

The sprayer built by Mattes was designed for use with beef cattle and sprays only the backs of the animals. A sprayer with a second pump, to spray the legs and undersides of cattle, was constructed last summer by Bruce. It was used to keep a dairy herd free of all kinds of flies.

Free plans for building the two types of cattle sprayers described here are available from the Illinois Natural History Survey, Urbana, Illinois. END

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COMBAT INFECTION PROMOTE HEALING

WITH STAINLESS

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PIMPLES*-ACNE

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Not only do pimples* heal faster, without leaving ugly scars, but the same thing happens when Campho-Phenique is used on fever blisters, cold sores, gum boils. Wonderful too, for insect bites, cuts and scratches, minor burns caused by book matches, hot cooking utensils, hot water or steam. Just apply Campho-Phenique next time and see how fast this pain-relieving antiseptic goes to work. And it doesn't stain the skin! Get a bottle today.

*Externally caused

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Powerhouse 1952 MODEL

UNLOADER

- A labor-saver that fits any farm wagon or truck box! For faster, easier handling of chopped hay, corn, ensilage, small grain. Features universal joint drive shaft for fast, simple hook-up.
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Veterinary

Vaccination wasn't the cause

A farmer recently claimed that simultaneous vaccination had given his pigs cholera instead of preventing it. He contended that the serum couldn't have been any good or the outbreak wouldn't have occurred. He was apparently justified in his belief, for the symptoms were those of cholera. He had lost a great many animals about a week after vaccination, while the older porkers weren't affected.

However, an investigation showed that the swine hadn't been afflicted with cholera at all. Instead, they'd died of a comparatively new disease by the name of "gut edema" which is going around. Although the ailment often attacks recently vaccinated pigs, it also is common in unvaccinated animals. Apparently it isn't related to cholera at all. The exact cause isn't known, but you'll probably be hearing more about this disease.

What's the trouble here?

This sheep was first noticed standing in a dejected manner at some distance from the rest of the flock in the pasture. It evidently wasn't too sick, as it ran back to the other animals when approached. However, both buttocks were decidedly wet and of a peculiar dark color. Such

Photograph: Bailey

What caused wet, dark area on buttocks?

symptoms are those of injuries by dogs, diarrhea caused by lush pasture, "blowing" by flies, or scouring due to infestation with worms. Can you name the trouble?

In this case it happened to be "blowing" by flies. Turning back the dark-colored wool revealed the presence of thousands of wormlike larvae, many of them buried headfirst in the flesh. They hatch from eggs laid in wet, soiled wool by various kinds of flies.

Treatment consists of clipping the entire affected area and burning the clippings. Those larvae buried in the flesh can be removed with forceps. Paint the clipped area with pine tar, Smear 62, or the newer EQ335 to repel flies and prevent the laying of more eggs.

NOW- Cobey offers you the

Combination Manure Spreader and Forage Wagon

By removing the beater-spreaders and adding steel sides, bows and a tarp cover over the bow top, you get a self-unloading wagon. This wagon is perfect for use with a field harvester.

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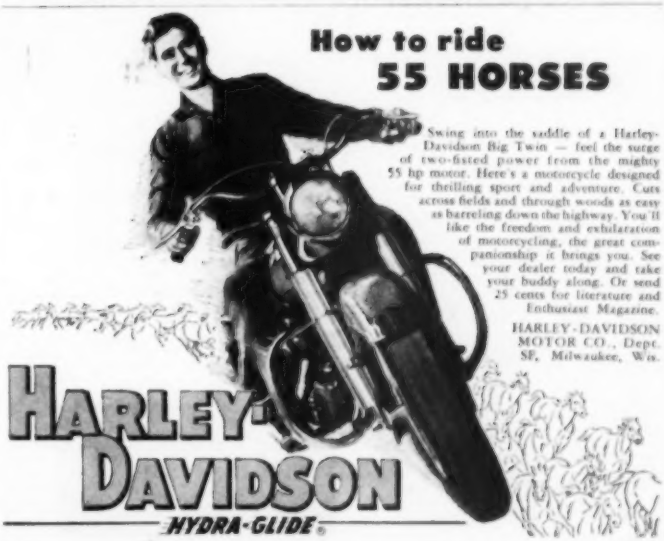
How to ride 55 HORSES



Swing into the saddle of a Harley-Davidson Big Twin — feel the surge of two-fisted power from the mighty 55 hp motor. Here's a motorcycle designed for thrilling sport and adventure. Cuts across fields and through woods as easy as barreling down the highway. You'll like the freedom and exhilaration of motorcycling, the great companionship it brings you. See your dealer today and take your buddy along. Or send 25 cents for literature and Enthusiast Magazine.

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HYDRA-GLIDE

His eyes tell . . .

The look in his eyes tells the kind of care you give your dog. And it's easy to give him the care he deserves, with Sergeant's Dog Care Products to help you in almost every minor ailment. Skin Balm, for instance, brings quick, soothing relief to skin irritations. Others for worms, fleas, ear troubles, lack of vitamins. All safe, sure, easy to use. All veterinarian-tested. Relied on by dog owners for 77 years. **FREE:** a wealth of information on dog care—Sergeant's Dog Book. Helps you on questions of care, feeding, training. At drug or pet counters—or write Sergeant's, Dept. K-8, Richmond 20, Virginia.

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For COLOR-right COLOR-bright rooms

Decorate by recipe!

Now, for the first time—simple, how-to recipes for your home decorating! In your September *Successful Farming* you'll see the first in a series of three home decorating articles that give you the formulas for brighter, more livable homes—whether you're revamping your old family home or starting from scratch.

Color Chart . . . as easy to follow as a taste-tested recipe—and as sure!

Step-by-step Directions . . . that help you choose your colors, put the right colors in the right places

Color Clock . . . makes choosing your color scheme as simple as telling time

Read your September issue of . . .

Successful Farming

The PLAY

Where Playfellows

Greasy Squeaky

Every smart little mouse knows he must be perfectly quiet if he is to get around safely. But Squeaky Mouse found it very hard to be quiet because every time he took a deep breath, his voice squeaked!

Now Squeaky was so worried about this trouble in his throat that he went to see Old Doc Mouse who lived in a fine home next to the oatbin in the big red barn.

Old Doc Mouse looked at Squeaky's throat but he could find nothing wrong. He scratched his left ear and said, "If you squeak every time you take a deep breath, you must have a rusty hinge somewhere in your throat. Go to the tractor shed and eat some grease to oil your throat hinges."

Squeaky thought that sounded like a good idea. He hurried to the shed and sure enough, the lid was off the grease can and he slid right in! He ate and ate and ate until his throat was all greased.

Then he slid down from the grease can and took a deep breath to see if the grease had helped the squeak. But he still squeaked! He squeaked just the same as ever!

Squeaky was so disappointed that he began to cry. He was so unhappy that he didn't notice a big black shadow moving toward him. Squeaky just sobbed and sobbed and with every deep breath there was a loud squeak. The grease hadn't helped at all.

Suddenly a large black paw closed over little Squeaky's tummy. He looked up into two green eyes that he knew belonged to Black Pat, the best mousecatcher on the whole farm.

Squeaky wriggled and kicked with all his might. Then he felt himself sliding . . . sliding right out of Black Pat's paws. Squeaky hit the ground with a thud, but he didn't waste a minute. He ran straight for the door of Old Doc's house.

HOUSE

meet every month

Black Pat just stood and blinked. She couldn't understand what had happened, for she had never caught a greasy mouse.

Old Doc saw Squeaky heading for his door. He stepped aside and laughed as Squeaky came sliding through safely. Squeaky's little heart pounded fast. His breath came out in one squeak after another. Old Doc knew the grease hadn't helped after all.

But as soon as Squeaky was able to talk he turned to Old Doc and said, "The grease didn't stop my squeaking, but it saved my life. I learned that even with grease I must never take a deep breath away from home."

And from that day on all of the mice called him Greasy Squeaky Mouse.

Name this farm animal. In each sentence find a letter that is in the first italicized word but not in the second and you'll have the puzzle answer.

My first is in *supper* but never in *eat*;
My second in *chump* but never in *feet*.
My third is in *pond* but never in *creek*;
My fourth is in *playful* but never in *squeak*.
My fifth is in *turkeys* but never in *chicks*;
My whole is a baby that learns clever tricks.

Answer: Addnd

How cagey are you? Use the letters A A A E E L R R R in the blank spaces of the word square below to form three more four-letter words. The words should read the same across or up and down the square.

C	A	G	E
A			
G			
E			

Solution:
CAGE, AREA, GEAR, EARL

Magic trick. In this magic trick you fill in the blanks to form five four-letter words. How quickly can you find the proper word?

Baseball glove	M _ T _
Breezy	A _ R _
Smile	G _ I _
Part of a foot	I _ C _
Something good to eat	C _ K _

Answers:
MITT, AIRY, GRIN, INCH, CAKE

Forage Harvester with patented Row-Crop Attachment

● More Gehl Choppers have been sold than those of any other independent manufacturer . . . often imitated, never equalled. Row Crop Attachment, shown here, has auger-type gatherers, exclusive with Gehl . . . minimize field trouble, do not knock off as many ears.

The Gehl gives you that highly-important *clean, fast, uniform* cutting which makes better feed . . . silage that packs better and keeps well. Many other features, exclusive with Gehl, result in extra rugged Gehl dependability and trouble-free operation year after year.

QUICK CHANGE-OVER ATTACHMENTS

The Hay Pickup, Corn and Row-Crop Attachment, or new Gehl Mower-Bar for short and tall grass silage crops sown broadcast, all give outstanding performance. All three quick change-over attachments go on as assembled units . . . easily and quickly. Field chopper may have its own motor or power take-off from tractor. Powerful Gehl Tilt-up Blower, for either forage or grain, with power take-off to operate self-unloading wagon.

Gehl dealers have been selling Forage Harvesters more years than most dealers . . . some have sold other makes before switching to Gehl. Talk with Gehl owners.

ONLY ONE MAN DOES THE JOB . . .
the Gehl Row-Crop Attachment shown here in corn has the famous Gehl patented auger-type gatherers.

Gehl Chopper is shown here with the new Mower-Bar Attachment harvesting soybean and Sudan Grass mixture. Only one man mows, chops and loads in one operation.

FREE PACKET . . . New booklet: "Streamlined Methods of Harvesting Hay and Making Grass Silage" . . . colorful Catalog of Gehl Forage Harvester . . . *free plans* for building self-unloading wagon box, using Gehl metal parts kit. *Write!*

GEHL BROS. MFG. CO.
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GEHL

An invitation to you

This year marks *Successful Farming*'s Golden Anniversary. If you and your family are in Des Moines during the coming months, do stop in and visit with us, won't you? Special guides will be on hand to show you how your magazine is published. We'll look forward to seeing you.—*The Editors.*

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Precision ground lenses, center focusing gives exact eye adjustment. Large 42MM objectives. 8 mile range, metal construction. Weight 10 oz. Extra wide field of view $3.95 postpaid
Satisfaction guaranteed or money promptly refunded. Send check or money order Dept. SF-B13.
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No. 1 livestock magazine in its field, Successful Farming leads all major farm magazines in editorial pages devoted to livestock.

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NEW Compressed with "CONTROLLED FIBERS" for clean milk
Free Samples
KENDALL MILLS
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Division of THE KENDALL CO.

The difference between this...

and this...

is often this...

Upholstered furniture

From page 48

inches high in front, a little lower in the back of the seat. An occasional chair is 19 inches deep, 18 inches from the floor in front. Armrests are about 7 inches above the seat. Keep in mind that these are only average figures; chairs and sofas vary a great deal, so it is wise to have the person who will most use the furniture sit in it. A chair must "fit" you as well as a suit or coat! A tip when you shop: Don't buy a chair or sofa when you're tired. If you are weary, anything which takes you off your feet seems to be just about the last word in comfort.

Construction. There's more to construction than meets the eye! You can see very little, but if you have faith in your dealer, you can rely on him to supply you with the correct information. Knowing the terms and construction points to ask about and look for will make you a better buyer. Two pieces which may look exactly alike may differ in inner construction to make one of them three or four times the value of the other.

Frame. Hardwood is the preferred material for the frame, because it holds screws and tacks securely. Covered parts of the frame are usually ash, birch, or oak. Cheaper, softer woods may give way under the strain. In better furniture, mahogany, walnut, cherry, maple, oak, and birch are used in exposed parts such as wood trim and legs. The frame should be reinforced with blocks—set clear into the corners—and glued and screwed into place. Frames may be either glued together with dowels (small wooden pegs) or a mortise and tenon. Joints of cheap furniture may be merely nailed together and hence lack strength.

Curved parts of furniture should be cut from solid wood, for strength. In poor construction, outer parts of the curve are sometimes glued on.

Base for springs. Either a resilient steel webbing or a closely woven jute webbing makes the best base for the springs. Springs *can* be attached to a board, but this is found only in the cheapest chairs. If jute is used, the webbing strips should be placed close together, with each band stretched and tacked securely to the frame of the chair.

Springs. Double-cone springs are preferable in the back and the seat; single-cone springs are usually used in the removable cushion. There is no specified number of springs necessary in a piece of upholstered furniture, as this depends entirely on the size of spring used. However, if small or medium-size springs are used, there should be a greater number than when larger springs are used. Springs should be tied together with steel or heavy twine—or encased individually in muslin pockets. This serves as a guaranty against a lumpy surface. If twine is used, the springs should be tied at least eight times.

Filling. Curled animal hair (either rubberized or plain) or foam rubber are the best-quality fillings. Vegetable fibers used in some medium-grade furniture lack the resilience and long-wearing qualities of the others. Although foam-rubber padding costs more, it is mothproof, vermin-proof, and mold- or damp-proof. A layer of cotton is placed on top of all stuffings, giving softness and smoothness. In better furniture, this cotton is covered with muslin to prevent slipping and lumping.

Outer covering. Consider the fabric covering the chair for both beauty and durability.

Ask yourself about color and pattern—will it blend with the rest of your furnishings; should it be a flower, stripe, plain, or plaid?

Durability depends upon the weave and type of fibers used. Here are the most common fabrics you can choose:

Mohair frieze is a hard-finish, uncut pile material that is noted for its long-wearing qualities. *Mohair boucle,* which has a longer loop than the frieze weave, gives same long wear, and has a highly textured effect. *Rayon and cotton velvet* can be had either in a plain weave or a carved surface. This fabric marks badly, doesn't wear well. *Cotton tapestry* has a durable flat weave, and is the hardiest of all cotton materials. *Rayon and cotton damask* is high in looks, low in serviceability. *Brocatel* in either rayon or cotton is usually placed on traditionally styled furniture. Elegant in appearance; low wearing quality. *Matelasse,* of cotton, or cotton and rayon, is made of two thicknesses of material—giving a quilted appearance. It wears well for cotton. *Cotton rep or tweill* is not durable. *Leather,* though expensive, wears beautifully—*if* it is of good quality. *Plastic,* if reinforced with a fabric back, is better for pieces which receive strain than if it is smooth-backed.

Good design. Many people confuse bulk with good design and quality. Such is not the case. On the whole, it can be said that the plainer and cleaner the lines of the furniture, the better the design. Always keep in mind that the size and scale of your furniture must be in proportion to your room. Elaborate carving and really "overstuffed" lines can do nothing but cheapen the piece of furniture. Smaller-scaled furniture with simple, smooth lines is easier to care for and more adaptable for slipcovers later.

It would be a fine thing if you could dissect the chair of your choice with a sharp knife. But since you can't go this far, you'll do well to place your trust in a reliable furniture store in your shopping town. Then, put yourself in the hands of a competent salesman and discuss with him the things we have outlined here. **END**

Do you have a favorite housekeeping short cut? *Successful Farming* pays $5 for each suggestion published. Send your hints to: All Around the House, *Successful Farming,* Des Moines 3, Iowa.—Editors.

It's new—it's better—it's softened twice!

LOOK FOR IT IN THE NEW WRAPPER!

Talk about a bargain in softness! You haven't seen anything yet 'til you've seen the NEW Northern Tissue!

This new wonder-soft product actually goes through two extra refining steps to make it even softer than the old fluffy-soft Northern.

You get this extra value and softness for the usual thrifty Northern price.

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Don't Destroy Your Marriage

Neglect of intimate hygiene can create another you!

Only the Real You Can Hold His Love!

MAKE *sure* of your intimate feminine daintiness! Douche regularly with gentle, non-caustic "Lysol." Will not harm delicate tissue.

Many doctors recommend "Lysol." Follow simple directions for correct douching solution. *Never let neglect* create that *other* you, full of doubts, inhibitions. Be the *real* you your husband loves!

Get "Lysol" brand disinfectant today . . . use it regularly! Send for *free* booklet on Feminine Hygiene prepared in collaboration with a leading gynecologist. Mailed in plain envelope. Write Harriet Dean, Lehn & Fink Products Corp., Box S.F.-527, Bloomfield, N. J.

"Lysol" Brand Disinfectant

A Concentrated Germ-Killer

AVAILABLE AT ALL DRUG STORES

Mother and daughter are

Pinafore pretty

That popular pattern, the pinafore, is back and more versatile than ever. Wear it alone this summer as a sundress . . . add the jacket and wear everywhere as a two-piece dress. Team it with the dainty ruffled dress and you've a blouse-and-petticoat effect under the pinafore. The dress alone is attractive as a single style, too. Mother and daughter, big and little sister, large size or small size alone . . . one way or four . . . it's the pattern sensation of the summer for you!

Back views on page 101

Ruffled dress gives a petticoat effect when worn with the pinafore

Denim pinafore goes over top of a sheer cotton dress for a morning-fresh fashion

Sundress style has an attractive bolero (not sketched) to be worn for shopping

Perfect for parties this summer, school in the fall. Add a sash for extra sparkle

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You can clean your toilet bowl with Sani-Flush without harm to the tank or its action. Scientific tests proved this beyond doubt. Sani-Flush is quick, easy, sanitary. It removes stains as well as invisible film where germs lurk. No messy scrubbing.

Write for "Report of Scientific Tests." It gives proofs. The Hygienic Products Company, Dept. 107, Canton 2, Ohio.

Sani-Flush

the toilet bowl cleaner

COMING...

Successful Farming

Recipes for decorating

All guesswork goes *out* when you follow these sure and simple formulas. *Successful Farming* home decorating series starting in September is one of those gold mines that makes people say, "Why didn't someone think of this before?"

Read your September, October, and November issues for easy ways to make your home brighter, more tasteful, more livable.

Successful Farming

Advance Patterns 6040 and 6041 are designed for several fabrics. Sheer cotton, chambray, or taffeta are good suggestions for the dress. The pinafore is attractive in denim, lightweight wool, taffeta, cotton, or piqué. Co-ordinated colors in cotton and denim are ideal for the dress and pinafore as an ensemble. A smart bolero jacket with cap sleeves and tiny bow tie is included with each pattern. The jacket is bound in contrasting color.

6040. The pinafore in size 11 requires $3\frac{1}{8}$ yards of 35-inch material without nap and $\frac{1}{4}$ yard of 35-inch interfacing. An additional $\frac{3}{4}$ yard is needed for self binding. The ruffled dress requires $5\frac{1}{4}$ yards of 35-inch material. A bolero jacket is included in the pattern and may be made from approximately $\frac{3}{8}$ yard of 35-inch fabric for the size 11. Pattern comes in junior miss sizes 9 to 17 and costs 35 cents.

6041. Child's dress in size 6 requires $2\frac{1}{2}$ yards of 35-inch material without nap. Pinafore needs 2 yards of 35-, 39-, or 54-inch material without nap. The bolero, not shown, can be made from approximately $\frac{1}{2}$ yard of 35-inch material. In children's sizes 2 to 8, the pattern price is 35 cents.

These two Advance Patterns are available in local stores or may be purchased direct from Successful Farming *by filling in the handy coupon below.*

To: Successful Farming,
4707 Meredith Building,
Des Moines 3, Iowa.

We have enclosed cash or money order in the amount of $ .....
for the following patterns:

☐ **6040** Size .....
☐ **6041** Size .....

Name .....
Address .....
City ..... **State** .....

Forget the Time of month

*Tampax takes care of vacations and week-ends

Believe the Tampax user who says "I can go in swimming *any day of the month* I want to." She can also picnic in a brief play-suit—on those particular days in question—or go jaunting here and there in clinging slacks. That's because Tampax sanitary protection discards the bulky external pad with its belt-and-pin harness. It is worn internally. There is nothing outside to "show."

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Make your hallway say welcome!

From page 50

an alcove into a regular hallway and adds to its proportions besides. Brightly striped paper with the stripe continuing across the ceiling gives a neat and tidy look. Strong colors will add a dramatic touch to an entryway—warm, pastel colors will lighten and brighten it.

If your front door opens directly into the living room, use your imagination to create a hallway. A low, built-in partition topped with a planting box is one way to lend graciousness to your entryway. Such devices as a bamboo shade hung from the ceiling or a folding screen will give an even greater effect of a separate room, as well as cutting off chilly drafts coming through the door.

You could use your hallway as a display case for a treasured antique that can't withstand the rough-and-tumble wear it would get in the living room.

If you're a plant and flower fancier, use the hall to display your hobby to good advantage. For instance, you could give an old table a coat of paint to match the colors in your entryway and line up your prize geraniums or African-violets in identical pots, painted to match the table.

Or you might fill an indoor window box with colorful flowers and house plants and put it on the hall table for a wintertime lift. If you insulate the bottom of the plant box, it could be used on top of the radiator.

Small windows at either side of the front door can be "curtained" with hanging vines. Build a small shelf at the top of the window to hold them, or secure the pots with metal holders. The trailing plants will make an interesting pattern against the wall.

A hallway should reflect the personality of the rest of your home. Make it a pleasant preview. **END**

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Get help with your decorating problems

The leading stores listed on page 59 are cooperating with *Successful Farming* to offer you advice and assistance with all your farm home building and decorating problems. Turn to page 59 right now, and learn the name of the store nearest you. And be sure to stop in, your next trip to town.

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WET WALLS, BASEMENTS?

COPROX, New Patented Copperized Cement Compound, Unites Chemically with Porous Masonry to Help Seal Seepage Out

NEW YORK: A new compound containing copper oxide and Portland Cement, called COPROX, has been perfected which helps seal out water from porous masonry walls when applied *inside* or *out*, above or below ground.

Different from all other so-called waterproofing compounds and paints, and protected by U.S. Patent, only COPROX has its exclusive copperized action, a unique three-way action that (1) *penetrates* the microscopic pores of the masonry surface, (2) *expands* to fill pores with an insoluble, non-absorbent copper oxychloride plug which (3) *bonds* both chemically and mechanically with masonry, to withstand water pressures up to 500 pounds per sq. ft., in actual tests on cinder block as thin as 12 inches, and yet permits breathing.

Unlike ordinary cement coating compounds, COPROX is guaranteed to contain no fats which are broken down by the lime in cement, or iron which ultimately rusts out completely.

COPROX is mixed with water, applied with a stiff fibre brush. It hardens into a stone-like surface on clean porous concrete, cement, cinder block, cement stucco, unglazed brick and porous natural stone. It is recommended for foundation walls, basements, storage tanks, garages, swimming pools, fish ponds. Costs less than the best oil paint. $3.25 a gallon. Prices slightly higher west of Rockies. Five beautiful decorator's shades. Simple to apply. Available at paint, hardware and department stores. COPROX, INC., 1270 SIXTH AVE., NEW YORK 20, N. Y.

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How to conceal an electric-lamp cord

Electric lamps and fixtures are an old story nowadays—you take for granted the beauty and convenience they add to your home. It might be worthwhile for you to take a daytime glance at these fixtures to see how they really look in your room. What is the first thing you notice? Too often it's not the fixture itself, but the long, dangling cord.

If you are building or remodeling, you have a perfect opportunity to remedy dangling cords. Check plans carefully to be sure you have included enough outlets to make long cords unnecessary.

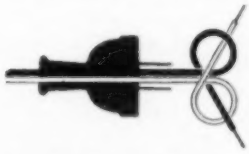
Poorly placed outlets, however, may not be your problem. If you are bothered with an extra length of light cord, a minute's repair will make your fixture more attractive and eliminate stooping to move the cord every time you vacuum or dust. (See drawings below.)

Once the cord is shortened, the next step is to minimize it as much as possible. If your room is wallpapered, get an extra piece of the same pattern to use for the cord. Cut this piece into long, narrow strips and glue one firmly to the cord where it enters the socket. Cover the cord by winding the strip carefully around it.

If you can't find a piece of wallpaper that matches your walls, or if your walls are painted, get a package of colored bias tape or a strip of cloth. Follow the same procedure as with the wallpaper.

Don't try to paint lamp cords because enamel will not adhere to the rubber insulation. It will flake off easily.

Cut cord to within ½ inch of length needed to reach outlet. Pare off ½ inch of insulation; twist wires tight and thread in plug



Tie the wires into an underwriters' knot as illustrated above. To attach the cord to the plug, pull this knot inside the plug

Drawings: Woods

Loop one wire over each prong; wind extra wire clockwise around its adjacent screw. Wind wires tightly; tighten screws

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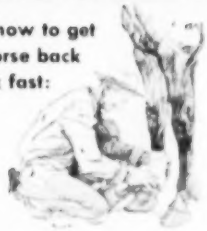

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ABSORBINE

Livestock

Value in higher-protein ration

Recently completed research at the Michigan Experiment Station shows that you can help avoid B-vitamin deficiency in swine by feeding a ration slightly higher in protein.

The researchers found that pigs fed a ration containing 14 percent protein grew poorly. Addition of pantothenic acid, one of the B vitamins, resulted in greatly increased daily gains and greater feeding efficiency. However, addition of vitamin B_{12} did not result in any marked increase in daily gain.

On the other hand, a group of experimental pigs receiving 18 percent protein in their feed grew well. And there was little gain from the addition of vitamin B_{12} and pantothenic acid to this higher-protein ration.

The swine nutritionists explain that the higher-protein feed indirectly supplied the needed B vitamins. When receiving more protein, the pig does not seem to need as much of the B vitamins as when a low-protein ration is fed. Dr. J. A. Hoefer, one of the experiment-station workers, says, "A lower-protein ration can be balanced by the addition of synthetic or natural B vitamins and with the addition of antibiotics, but it is a complicated job. Feeding a well-balanced protein supplement or feed, containing added B vitamins and antibiotics, will certainly help to avoid poor, unthrifty runt pigs."—*W. S., Michigan.*

Built-in sunshade

The sunshade (pictured below) was built right into the farrowing house by Edward Holtkamp, Lee County, Iowa. When the shade is up, nearly the whole side is open to help cool the hogs during hot weather.

During warm weather, the pig rail is taken away from the rear wall of the house. The side is raised and propped up between two steel posts. The houses are divided into two pens at farrowing time. Later the partitions are removed when the growing pigs are moved to meadow. —*A. M. W., Iowa.*

Photograph: Wettach

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New vaccines successful

Three new commercial hog-cholera vaccines have given satisfactory results in critical tests performed on 60 pigs by the University of Illinois College of Veterinary Medicine.

Dr. P. D. Beamer, of the veterinary-college staff, says each of the vaccines protected the pigs against artificial exposure to hog cholera 8 days after vaccination. However, pigs exposed on the fourth and sixth days after vaccination developed symptoms of hog cholera.

"It appears that the new vaccines are incapable of causing outbreaks of hog cholera," Doctor Beamer says. "There was no evidence from the tests that hog cholera could spread from pigs vaccinated with the new vaccines to unvaccinated pigs in the same pens."

The three new hog-cholera vaccines are now available from the manufacturers. Two of them are recommended for use without anti-hog-cholera serum.

Practicing veterinarians point out that the new vaccines must be used according to the manufacturers' directions. Doctor Beamer adds that the new vaccines can be used only to prevent hog cholera. There is still no cure for the disease.

More on synthetic milk

Pigs gain better on well-managed feeding of synthetic sow's milk than on their own mother sow's milk after they are 2 or 3 days old, say research workers in the animal husbandry department at Iowa State College. The announcement followed completion of research on substitute sow's milk under practical farm conditions during the past year at the Iowa Experiment Station.

However, the four animal husbandry staff members' principal warned that synthetic sow's milk should be used only by a careful manager who has adequate housing and equipment. Proved directions must be followed to succeed.

The synthetic-milk research indicates that, on the average, you can raise one more pig per litter. And sows can produce one more litter a year if they do not have to nurse their pigs after the third day following birth. More litters per year will reduce the overhead cost of raising pigs, spread the labor load more evenly, and take the strain caused by peak marketings off the hog market.

The average farm pig is weaned at about 26 pounds at 8 weeks of age. Pigs raised on the synthetic milk weighed 40 to 50 pounds at this age. They made a pound of gain on as little as 1½ pounds of total feed solids.

Pigs fed the synthetic milk learn to eat pig starter younger, and they don't suffer a setback when they are weaned, as they are already eating solid feed. Sow-feeding costs go down, and the sow can be bred back within 10 or 12 days after farrowing. Sows that aren't bred back can go to market soon after farrowing, as they are not milked out of condition.

Synthetic-milk feeding is already being used by some operators of pig hatcheries and by leading market-hog producers.

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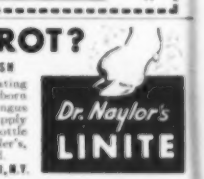

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Owiphoto Co., Weatherford, Okla.

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E. Skrudland, Lake Geneva, Wisconsin.

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Make Extra Money—for yourself, club or church. Up to 100% profit selling big value Christmas, All-Occasion greeting card assortments to friends, others. 7 leading 21 card $1.00 boxes. Religious and Novel cards. Gift Wrappings, Ribbons, Stationery, Napkins, Animated Books, Sewing Kits, unusual Gifts. Over 150 items. Bonus plan. Experience unnecessary. Write for Samples on approval. Special Offers. Hedenkamp, 361 Broadway, Dept. SU-16, New York.

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Steady Earnings With Angora Rabbits. Free illustrated booklet tells how, lists markets, successful raisers. Angoraville, 170 E. Butler, West St. Paul, Minnesota.

Enjoy Rabbit Raising. Hobby or Commercial. Nice Income from Meat, Fur, Stock, Fertilizer. Free Information. Texas State Rabbitry, Friendswood, Texas.

Earn Up To $400 Monthly raising Angora or New Zealand Rabbits. Plenty markets. Particulars free.
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Inventors: When you are satisfied that you have invented something of value write me, without obligation, for information as to what steps you should take to secure a Patent. Write Patrick D. Beavers Registered Patent Atty., 950 Columbian Bldg., Washington 1, D.C.

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MISCELLANEOUS

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Cesspools, Septic tanks, Outdoor toilets—Cleaned-Deodorized. Amazing Product Saves Digging. Details. DigNoMore Company, Dept. 24, 2611 Harriet, Minneapolis 8, Minn.

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Profit and Health from dairy goats. Monthly magazine tells how. 12-month subscription $1. Dairy Goat Journal, Columbia, C25, Mo.

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Eliminate odors and solids with Enzymatic. New Enzymatic formula liquefies solids ... stops odors ... saves digging, moving, cleaning, pumping of privies, cesspools, septic tanks. Nonpoisonous, harmless. Money-back guarantee! Six months supply for privies, cesspools $1.50 ... septic tanks, $3.00 ... at your dealers—or sent postpaid by Enzymatic, N. O. Nelson Company, Box 3265, Dept. C, St. Louis 10, Missouri.

Leathercraft For Pleasure or Profit. Make easy-to-assemble purses, belts, gloves, woolskin toys, 100 other items for gifts or to sell. Send 10c today for big catalog. Largest Leathercraft stock in U.S. J. C. Larson Co., 820 S. Tripp, Dept. 2262, Chicago 24.

Outdoor Toilets, Cesspools, Septic Tanks cleaned, deodorized with amazing new product, just mix dry powder with water, pour into toilet. Safe, no poisons. Save digging, pumping costs. Postcard brings free details. Burson Laboratories, Dept. B-22, Chicago 22, Illinois.

Women Needed—We offer wonderful opportunity for spare time money. Your home is your headquarters. No selling or canvassing. Write for free information.
Wilson Ties, Stillwater 2A, Minnesota.

Good money in weaving. Weave rugs at home for neighbors on $59.50 Union Loom. 30,000 doing it. Booklet free.
Union Looms, 80 Post St., Boonville, N.Y.

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89 Full size Jig Saw patterns of beautiful shelves, ornaments, toys, novelties. Plus "How, Where to Sell". Only $1.00. Mastercraft 74A, 7041 Olcott, Chicago 31, Ill.

700 New Buttons $1.00. All colors, designs, sizes. Dozens of "sets" for dresses, etc. Guaranteed. Send No Money! Grandma Goodwin, Dept D37D, Girard, Illinois.

Make Up To $45.-$55. Week as a Trained Practical Nurse! Learn quickly at home. Booklet free. Chicago School of Nursing, Dept. F-6, Chicago.

98 All new, full size lawn ornament and novelty patterns up to 20" high. Only $1.00. Mastercraft 72A, 7041 Olcott, Chicago 31, Illinois.

Money in new greaseless doughnuts. Start in kitchen. Wholesale to stores. Free plans. Unit Ray Co., 3605 South 15th Ave., Minneapolis 7, Minn.

I Make Beautiful Chenille Peacock bedspreads, Rugs for sale. Pictures, Prices sent. Guaranteed to Please.
Ethel Miles, Cub Run, Ky.

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Guaranteed top prices and immediate payment for feather shipments. Free tags. Ship to this old reliable firm. Used feathers—send sample for best price. No handling or commission charge. Progress Feather Co., 657 W. Lake St., Chicago, Ill.

Top Price for new goose & duck feathers. Ship parcel post. For old feathers mail sample in ordinary envelope to: Northwestern Feather Co., 212 Scribner, Grand Rapids 4, Mich.

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Coonhounds. Combination Hounds, Foxhounds, Rabbit and Beagle Hounds, A Specialty. Puppies all breeds, price reasonable. Free literature and pictures. Trial. Raccoon Mountain Kennels, Box 268, Albertville, Ala., Duree Thomas, Owner.

Hunting Hounds: Coon and Combination Hounds, Foxhounds and Rabbit hounds. Cheap. Trial. Literature Free.
Dixie Kennels, D4, Herrick, Illinois.

EMPLOYMENT

Free Samples, and amazing plan, giving you gorgeous Dress without penny cost. Rush name today with dress size.
Harford, Dept. G-735, Cincinnati 25, Ohio.

POULTRY — CHICKS — DUCKS — EQUIPMENT

For quick delivery of U.S. Approved, Pullorum Passed chicks. New Hampshires, White Rocks, Rhode Island Reds, White Wyandottes, Rock-Red Crosses $11.95; Pullets $15.95; Cockerels $11.95—100. White Leghorns, English type $11.95, Pullets $21.95, Cockerels $3.95—100. Heavy mixed, no sex guarantee $8.95—100. Write for free catalog and complete price lists. Jackson County Hatchery, Box 13-C, Seymour, Indiana.

Davis Baby Chicks for immediate delivery. Barred, White Rocks, Rhode Island Reds, New Hampshires, White Wyandottes, as hatched $11.95—100. Pullets $15.95—100. Cockerels $11.95—100. Big English White Leghorns $11.95; Pullets $21.95—Cockerels $3.95. Heavy mixed $8.95. White Giants, Cornish Hampshire and Wyandotte Hampshire Crosses for Broilers $11.95. Davis Poultry Farm, Box 18-C, Ramsey, Ind.

Salem Chicks for immediate delivery. New Hampshires, White Rocks, Barred Rocks, Rhode Island Reds, White Wyandottes $11.95—100. Pullets $15.95—Cockerels $11.95. Big English White Leghorns $11.95—100. Pullets $21.95—Cockerels $3.95. Silverlaced and Columbian Wyandottes, White Giants $13.95—100. Heavy mixed $8.95—100.
Salem Hatchery, Box 6, Salem, Indiana.

Seymour for top Quality. New Hampshires, White Rocks, Barred Rocks, Rhode Island Reds, White Wyandottes $11.95—Pullets $15.95—Cockerels $11.95 per 100. Leghorns, White $11.95; Pullets $21.95. Cockerels $3.95. Heavy mixed $8.95—100. Immediate shipment C.O.D. Seymour Electric Hatchery, Box 44-C, Seymour, Indiana.

Rocks, Reds, Hampshires, Wyandottes $7.95, pullets $12.95. Leghorns, Austra-whites, Minorcas, $8.95, pullets $14.95. Heavy Assorted $6.90. Leftovers $4.85. Fryers $2.95 FOB 100%, alive COD. Catalog Free.
Bush Hatchery, Clinton, Missouri.

Started Geese (Heavy, range-size Africans, Toulouse, Emdens, Chinas). Goslings—eggs. Safe shipment anywhere! Magazines, bulletins, explain profitable production, marketing.
Peyton Farm, R28, Duluth, Minnesota.

Mammoth White Pekin ducklings, 12—$3.95; 25—$7.75; 50—$14.50; 100—$28.00. Baby chicks, Mallards, Goslings. Free circular. Colonial Duck Hatchery, Box D, Zeeland, Mich.

Successful Farming serves the farm families in the nation's agricultural Heart. Reach these best farm families in the best farming area with your classified advertisement. Write for details.

Business firms—write Successful Farming for details about classified advertising.

Dubois Chicks—Bred to lay, priced to sell. For quick shipment C.O.D. New Hampshires, Barred, White Rocks, Rhode Island Reds, White Wyandottes $11.95—100. Pullets $15.95; Cockerels $11.95. Silverlaced Columbian Wyandottes, White Giants $13.95; Big English White Leghorns $11.95; Pullets $21.95; Cockerels $3.95. Heavy Mixed $8.95. Rush your order for immediate shipment. Dubois County Hatchery, Box 910-C, Huntingburg, Indiana.

Greensburg chicks for immediate shipment. U.S. Approved-Pullorum Passed. Order direct from this advertisement. Barred, White Rocks, Rhode Island Reds, New Hampshires, White Wyandottes $11.95 per 100. Pullets $15.95. Cockerels $11.95. Big English White Leghorns $11.95 per 100. Pullets $21.95. Cockerels $3.95. Heavy mixed $8.95. Write Greensburg Hatchery, Box 9-C, Greensburg, Indiana.

For quick shipment AA grade New Hampshires, Barred, White, and Buff Rocks, Rhode Island Reds, Orpingtons, $11.95—Pullets $15.95—Cockerels $11.95—100. Big English White Leghorns $11.95—Pullets $22.95—Cockerels $3.95—100. Heavy mixed $8.95. Write for free catalog. We ship C.O.D. Carney Hatchery, Box 15-C, Shelbyville, Indiana.

Broiler: Delaware-Hampshires and Eurekas, $10.90. New Hampshires, White Rocks, $10.90. Pullets, $14.90. White Leghorns, $10.90. Pullets, $19.90. Heavy Assorted, $7.90. Heavy Assorted Pullets, $10.90. Table Assorted, $5.90. Left overs, $3.90. 100% Live Arrival. FOB—COD Shipments.
East Hatchery, Clinton, Missouri.

Pekin ducklings, extra large, superior quality. Proved money-makers for hundreds of customers. 15—$5.00; 25—$7.50; 50—$14.50; 100—$28.00. Prospects look bright for duck raisers this season. Central Farms Hatchery, Box 8-6, Zeeland, Michigan.

Goslings—Large, thrifty grass-eating beauties. Buy these low-cost money-makers now from the country's largest gosling hatchery. Prices rushed.
Norwalk Hatchery, Norwalk, Ohio.

Raise pheasants on the $100 week plan. Little capital and space can make you independent. Free details. Great Central Game Management System, Columbus 8, Kansas.

Clover Valley Chicks. U. S. Approved-Pullorum Passed. Thousands weekly. All leading breeds. Free Catalog. Clover Valley Hatcheries, Box 39, Ramsey, Indiana.

White, Brown Leghorns, Austrawhites, Rocks, Reds, Hampshires, Wyandottes $8.90, pullets $13.95, Heavies $6.85, Mixed $5.95, Fryers $2.95. Hi-Grade Chicks, Deepwater, Missouri.

OLD GOLD — JEWELRY

Watches Practically Wholesale to wearer direct. Save up to 60%, on Famous Make watches, diamonds, jewelry, silverware, gifts, home needs and other merchandise. Free Catalog. America's Greatest Values. Send name and address to Maryland Distributing Company, Dept. C-7, 501 E. Baltimore Street, Baltimore, Maryland.

Highest Cash Paid For Old, Broken Jewelry, Gold Teeth, Watches, Silverware, Diamonds, Spectacles. Free Information. Satisfaction Guaranteed. Rose Smelting Company, 29-D East Madison, Chicago.

Successful Farming serves the farm families in the nation's agricultural Heart. Reach these best farm families in the best farming area with your classified advertisement. Write for details.

SALESMEN WANTED

Look Here! Wanted—Men to start in business on credit. Sell some 200 farm-home Products. Thousands our Dealers now make quick sales, big profits. For particulars write Rawleigh's, Dept. G-192-SHW, Freeport, Ill.

BUSINESS OPPORTUNITIES

Make Money Sharpening Saws and Lawnmowers. Start at home. Free book—Money Making Facts—tells how. Paul Foley Company, Columbia Heights, Minnesota.

Moneymaking Opportunities. Hundreds to choose from. Read World's Biggest Classified Medium. Free copy. Popular Mechanics Classified, 207 East Ontario, Chicago 11.

Start Venetian Blind Laundry. Profitable lifetime business. New Machine. Free booklet.
O. A. Co., 101 S. 44th, Phila. 4, Pa.

The average value of farm Implements and Machinery of Successful Farming farms is nearly double the U. S. farm average. Write for classified advertising details.

FOR FARMERS

Attention Cream Shippers! Ship us your cream. 57 years of honest, dependable service. Galva Creamery Company, Galva, Illinois, and Kansas City, Missouri. Peterson's Creamery, St. Paul, Minnesota.

Hog-feeding problem

From page 61

Is a pelleted supplement better than a meal supplement?

Tests comparing free-choice feeding of pelleted supplement with meal supplement show the same rate of gain for both. Pigs on the pelleted supplement ate about 8½ more pounds of supplement and 17 pounds less shelled corn per 100 pounds of gain.

What are good sources for the B vitamins needed in the ration?

Through a series of dry-lot feeding tests, the Illinois station has found the answer to this question. The tests have determined the ingredients or combination of ingredients which will provide satisfactory levels of water-soluble vitamins, vitamin B_{12}, and one or more unknown factors. These ingredients were added to rations containing corn, soybean oil meal, minerals, and the necessary fat-soluble vitamins. You can check your fattening ration to see if it contains combinations of two or more of these plant, animal, fish, and milk products: high-quality alfalfa meal, dried corn distillers' solubles, meat scraps or tankage, dried whey products, dried skim milk, fish meal, and condensed fish solubles. Plant sources furnish little if any vitamin B_{12}.

In many instances synthetic sources and industrial concentrates of riboflavin, niacin, pantothenic acid, choline, and vitamin B_{12} may be used economically by the feed manufacturer.

Just how important are antibiotics in a hog ration?

The use of antibiotics in a hog ration increases the rate of gain, and in some cases reduces the amount of feed needed to put on the gain. These facts have been established through research in Illinois and other states. Many farmers have fed antibiotic-fortified feeds to hogs and have noted increased gain with less feed.

The studies show that inclusion of effective antibiotics in the ration tends to increase the rate of gain by 10 to 20 percent both in dry lot and on pasture.

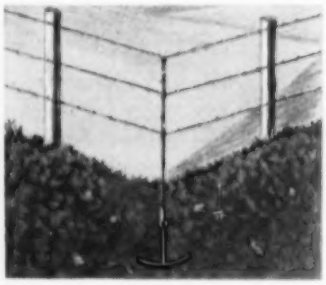
The best level for feeding antibiotics seems to be 10 grams of the antibiotic per ton of total ration. This means that if the antibiotic is in a supplement fed with grain, a ton of the supplement should contain from 30 to 60 grams. END

All around the farm

A page written by our readers

After we finish using our field cutter and blower for the season, we flush them both with water while the machine is running slowly. Then we let the machine run until it is dry. After it is dry, we pour crankcase oil into the machine while it is still running. This does a perfect job of rustproofing the inside that could not be reached by any other means. The drum, knives, cutter bar, and other working parts are as bright when starting the season as they are when finishing.—*M. T., Kansas.*

To make a fence anchor, I use an old rake or cultivator wheel, cutting the rim halfway between each spoke. I cut off the spoke at the hub and make a loop



on the end. I dig a hole at any low place in the fence line, place the anchor in it, and tramp it down. A wire tied to the loop in the end of the anchor and to the fence holds the fence securely in place in the hollow. For a wide hollow, I use several anchors.—*J. M., Nebraska.*

We use a bumper jack as an easily carried and very powerful post puller. The bottom of the jack is placed on a small plank at the base of the post. With a chain around the post and over the lifting lip of the jack, it is possible to pull almost any post with only a few strokes of the handle.—*W. B. J., Iowa.*

When the water line to the stock tanks gets clogged with moss, I force boiling water through the pipe. About 50 gallons of boiling water has fully cleared the pipe of all moss so the water flows through freely.—*J. G., Nebraska.*

For clearing a combine pickup attachment of weeds, I carry the gadget, as shown, on the combine or tractor. From a $\frac{3}{8}$" rod, 36" long, I cut a 4" piece and weld it on one end as a handle as shown. At the opposite end I bend the last 2" of the rod at a right angle. Then I forge and grind it to a good cutting edge with a sharp point on the end. This device will cut and slash its way through any trash or material clogging the machine.—*A. M. A., Minnesota.*

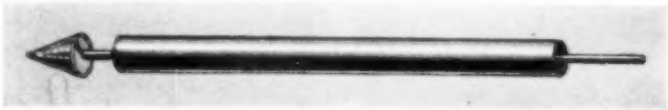
If hay with a little too high moisture content is baled, I am careful to pile the bales with the bands to the side, and the cut or folded edges of the bales resting one on the other. Compared to bales stacked flat on banded sides, molding is reduced to practically nothing, as the piles dry out much more rapidly. We have tried this with a number of different loads, always with good results.—*W. D., Minnesota.*

For testing wheat or other grain in the bin, I have made a device from a 6' length of 1" pipe, and a $7\frac{1}{2}$' length of $\frac{3}{8}$" iron rod. I draw the rod to a point and slide a $\frac{1}{2}$" washer onto the rod at the pointed end, leaving about 2" of the rod beyond the washer. The washer is welded to the rod. I make a cone of sheet metal and weld the open end of the cone onto the washer. Then I weld the seam down the side of the cone. Slide the long end of the rod through the pipe as shown. In using this device, the pipe and the cone covering the lower end of the pipe are pushed down into grain to the desired depth. I then push the rod down another 6" and then push the pipe down to the washer. The device is then drawn out of the grain, and I have about a handful of grain from the bin at whatever place the test was made. It is a simple matter to check for moisture, or condition of grain, throughout the bin by making a series of such tests.—*A. A. G., Kansas.*

This handy gadget for blowing dirt out of automotive and household-appliance parts is made of an old valve stem from an inner tube plus a length of copper tubing as shown. The base of the stem is cut off, and the tubing is soldered to that part of the stem. To use, it is hooked to an air hose from either a pressure tank or ordinary tire pump.—*J. K., Ohio.*

Our field that was in row crops was rather cloddy, so we made a platform across the open center of an old automobile tire with rough lumber on which a man could ride. By attaching a singletree to the tire, we pulled it between the rows. By shifting of the rider's weight, it can be steered. The device can be used at any time when the crop is up.—*S. M., Kentucky.*

By tying paper bags over individual bunches of grapes when the grapes are about half grown, we get perfect bunches free of insect stings. And we also extend the season by about a month. The grapes ripened within the protecting bags will keep a month or so after other grapes of the same variety are gone.—*H. L., Pennsylvania.*



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